# JVC

## SERVICE MANUAL

## STEREO RADIO CASSETTE RECORDER

## RC-W410 B/E/G/GI/V/VX



Area suffix		
В		U.K.
E	Cont	inental Europe
G		. W. Germany
GI		· · · · · · Italy
V/VX- · · ·		Eastern Europe

#### **Contents**

1	Safety Precautions							
2	Features			·				
3	Specifications							
4	Names of Control and Their Function	าร						
5	Location of Main Parts							
6	Removal of Main Parts							
7	Main Adjustment						. ′	1
8	Block Diagram						. ′	1

	Page	Э
9	Wiring Connections	5
10	Standard Schematic Diagram	3
11	Location of P.C. Board and Parts List 18	3
12	Exploded View of Enclosure Assembly 25	5
13	Exploded View of Mechanism Assembly 27	7
14	Packing Illustration and Parts List	0
15	Accessories	1

## 1 Safety Precautions

- The design of this product contains special hardware and many circuits and components specially for safety purposes.
   For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
- 2. Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.
- 4. The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after re-assembling.
- 5. Leakage current check (Electrical shock hazard testing)

After re-assembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.

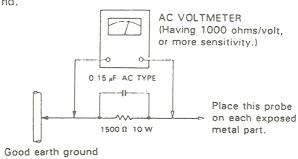
Do not use a line isolation transformer during this check.

- Plug the AC line cord directly into the AC outlet. Using a "Leakage Current Tester", measure the leakage current
  from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the
  chassis, to a known good earth ground. Any leakage current must not exceed 0.5 mA AC (r.m.s.).
- Alternate check method

Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having 1,000 ohms per volt or more sensitivity in the following manner. Connect a 1,500  $\Omega$  10 W resistor paralleled by a 0.15  $\mu$ F AC-type capacitor between an exposed metal part and a known good earth ground.

Measure the AC voltage across the resistor with the AC voltmeter.

Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75 V AC (r.m.s.). This corresponds to 0.5 mA AC (r.m.s.).



## Warning

- 1. This equipment has been designed and manufactured to meet international safety standards.
- 2. It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
- 3. Repairs must be made in accordance with the relevant safety standards.
- 4. It is essential that safety critical components are replaced by approved parts.
- If mains voltage selector is provided, check setting for local voltage.

#### **SAFETY PRECAUTIONS ABOUT RC-W410**

- Since diodes D901, D902, D903 and D904 are heating units, wires are arranged not to touch them as shown in Fig. 1-1 1.
  - Confirm that those parts are set vertically.
- Check up wires connected to the power transformer, which must be bound together with as shown in Fig. 1-1
   .
- Check up that single wires coming from a P.C. board are bound together with at the collective root near the board as shown in Fig. 1-1 3.

 Check up that all wires of motors and leaf switches are bound and secured with spacers at specific points respectively. (See Fig. 1-2 4 and 5.)

5. Make sure of speaker wires which should be soldered as they are twisted with each other as shown in Fig. 1-3 6.

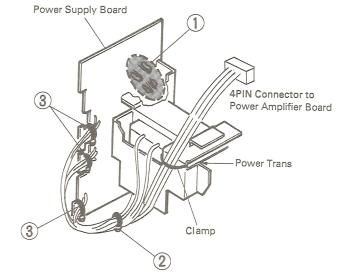


Fig. 1-1

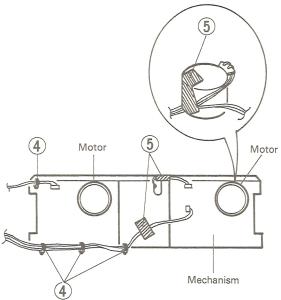


Fig. 1-2

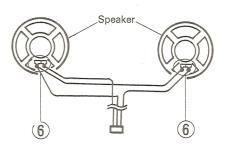


Fig. 1-3

## 2 Features

- Hyper-Bass Sound System with 3D on/off switch
- Three-band (FM/MW/LW) synthesizer tuner with Five-stations in each band (FM1, FM2, MW and LW) preset capability
- 4-element S.E.A. graphic equalizer
- Full auto-stop mechanism
- Synchro-start high-speed dubbing
- Relay play between two decks

## 3 Specifications

Tuner section

Frequency rranges : FM 87.5-108 MHz

MW 522-1629 kHz LW 144-290 kHz

Antennas

: Telescopic antenna for FM

Ferrite core antenna for MW & LW

Tape Recorder section

Track system : 4-track 2-channel stereo

Frequency response: 80-12,500 Hz Wow & flutter: 0.15 % (WRMS)

Fast wind time : Approx. 120 sec (C-60 cassette)

General

3D system : ASW (Acoustic Super Woofer)

Speakers : 10 cm x 2

Power output  $: 7.0 \text{ W} (3.5 \text{ W} + 3.5 \text{ W}) \text{ at 8 } \Omega \text{ and}$ 

8.0 W for 3D at 12  $\Omega$  (Max.) 4.0 W (2.0 W + 2.0 W) at 8  $\Omega$  and 6.0 W for 3D at 12  $\Omega$  (10% THD)

S.E.A. characteristics

S.E.A. center frequencies : 100 Hz/330 Hz/2 kHz/10 kHz

S.E.A. control range :±8 dB

Input jack : MIX MIC x 1 (3 mV/-50 dBV.

 $200 \Omega - 2 k\Omega$ )

Output jack : Headphones  $\times$  1 (20 mW/32  $\Omega$ ,

 $8\Omega - 1 k\Omega$ )

Power supply : DC 12 V (8 "R20" cells)

AC 220-240 V/110-120 V,

50/60 Hz

(RC-W410E only) Ext. DC IN 12 V (car battery via

optional CN-332 car adapter)

Power consumption: 18 W

Dimensions : 560(W) x 167(H) x 153(D) mm

(including knobs)

Weight : Approx. 3.9 kg (without batteries)

Design and specifications are subject to change without notice.

## 4 Names of Controls and Their Functions

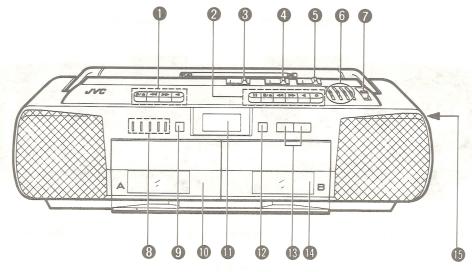


Fig. 4-1

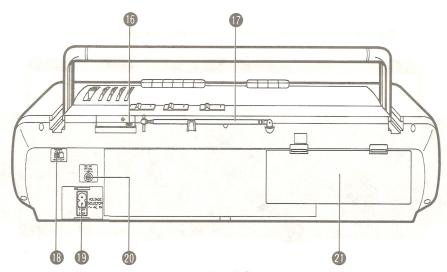


Fig. 4-2

- ① Cassette operation buttons (Deck A)
  ■/♠ STOP/EJECT button
  - =/= STOP/EJECT bu
  - ◀■ FF button
  - REW button
  - PLAY button
- 2 Cassette operation buttons (Deck B)
  - **II** PAUSE button
- ■/≜ STOP/EJECT button
  - ◆ FF button
  - REW button
    - PLAY button
    - OREC button
- **3** TAPE/FM MODE switch
- FUNCTION switch
- 5 3D (HYPER-BASS SOUND) switch
- 6 4-BAND GRAPHIC EQUALIZER (S.E.A.) controls
- VOLUME control
- 8 Preset station button
- PRESET SCAN button
- Cassette holder (Deck A)

- LCD digital display
  - Band indicator (FM1-FM2-MW-LW)
  - Radio frequency display
  - Preset station indicator
  - FM stereo (STEREO) indicator
- BAND button
- 13 TUNING control
  - ▼ DOWN frequency
  - ▲ UP frequency
- Cassette holder (Deck B)
- 15 PHONES jack (3.5 mm dia. stereo mini)
- MIX MIC jack (3.5 mm dia. mini)
- Telescopic antenna
- 18 BEAT CUT switch
- 1 VOLTAGE SELECTOR/AC IN (AC input) jack
- DC IN 12 V jack ( → + ) (RC-W410E only)
- Battery compartment cover

## 5 Location of Main Parts

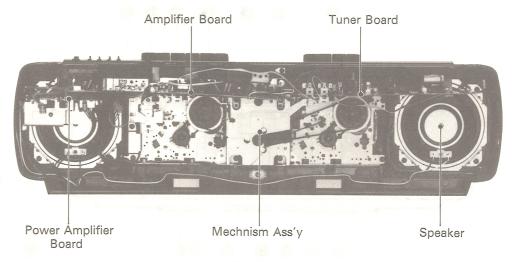


Fig. 5-1

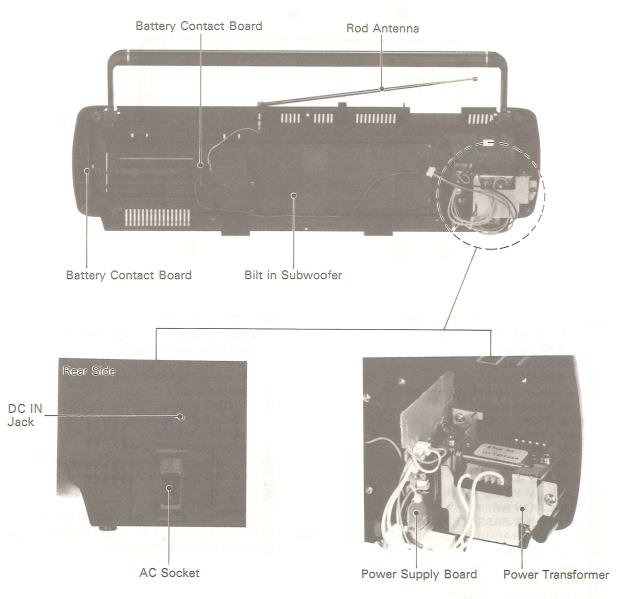


Fig. 5-2

#### Mechanism Ass'y

#### Top View

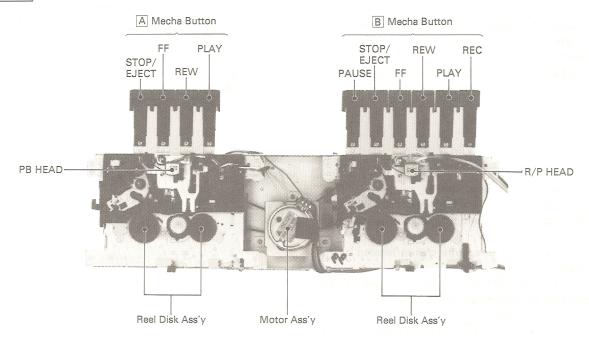


Fig. 5-3

#### **Bottom View**

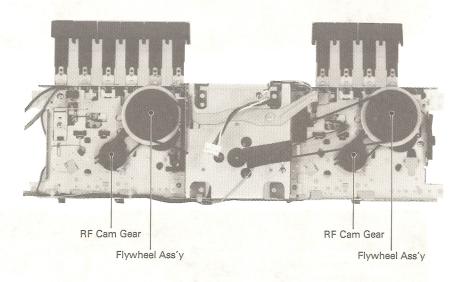


Fig. 5-4

## 6 Removal of Main Parts

#### ■ Rear Cabinet Ass'v

- Remove six screws (1) (M3 x 20) and (2) (M3 x 44) which secure the rear cabinet ass'y at the points indicated by a marks.
- 2. In the course of detaching the rear cabinet ass'y, disconnect the antenna lead which is wired to the tuner board from TP1.
- 3. Disconnect a connector CN901 from the power amplifier board.

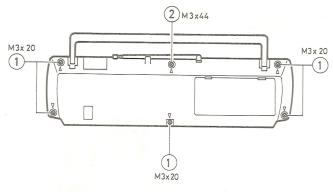


Fig. 6-1

#### ■ Speaker Unit for Hyper-Bass Sound

- Release the wire between the battery contact board and the power supply board from the guide for wire arrangement.
- 2. Release the wire from three wire clamps located by the right speaker.
- Remove five screws (3) (M3 x 16) and six screws (4) (M3 x 16) securing the hyper-bass sound box. Therefore, the speaker unit can be seen.
- 4. By removing eight screws 5 (M3 x 16) from the hyperbass sound box, the speaker unit can be taken off<sub>M3</sub> x 16

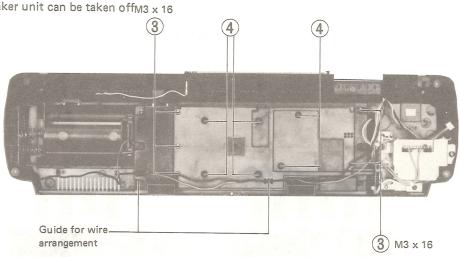
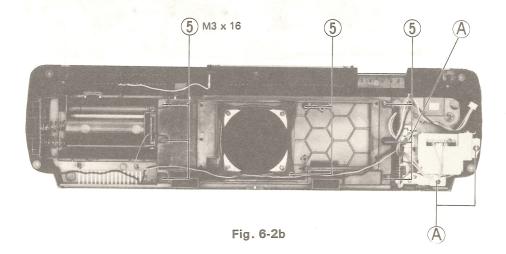


Fig. 6-2a



#### Tuner Board

Draw out the tuner board along the groove of the front cabinet ass'y.

#### ■ Main Board and Power Amplifier Board

- Remove three knobs of the slide switches: TAPE/FM MODE, FUNCTION and 3D selectors.
- Release the wire from three wire clamps located by the right speaker.
- Remove adhesive tape securing the wire to the main board.
- 4. Remove two screws 6 (M3 x 45) and 7 (M3 x 45, black) securing the main board and power amplifier.
- Detach the PHONES jack first, then the volume control and SEA switch, etc. one after another, and lastly take off the boards.
- 6. Disconnect connectors CN103, CN902, CN101, CN102 and CN401 from the Main board.

#### ■ Mechanism Ass'y

- 1. Remove the tuner board and amplifier board.
- 2. Remove nine screws (8) (M3 x 10) and (9) (M3 x 25) securing the mechanism ass'y.
- 3. Draw out the Rec. lever.

#### Operation Buttons

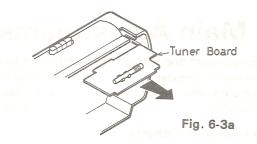
Remove ten screws  $\bigcirc$  (M2 x 4) securing operation buttons to the mechanism.

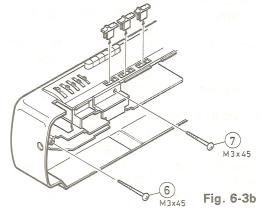
#### Synthesizer/LCD Board

Remove two screws 1 (M3 x 8) securing the Synthesizer/LCD board.

#### ■ Power Transformer and Power Supply Board (Fig. 6-2b)

- 1. Remove three screws (A) retaining the power transformer and power supply board.
- Remove two screws from transformer bracket. (When re-assembling, make sure of the correct direction to set the transformer bracket.)





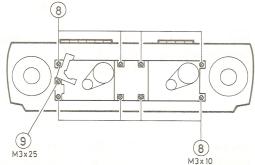


Fig. 6-4

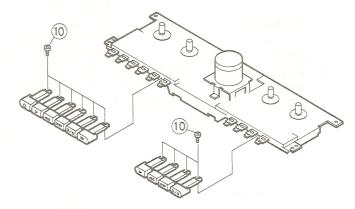


Fig. 6-5

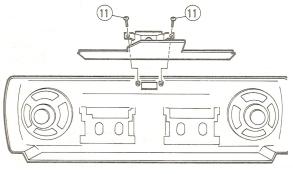


Fig. 6-6

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## 7 Main Adjustments

#### (1) Equipment and Measuring Instrument used for Adjustments

- Electronic voltmeter
- Audio frequency oscillator
- Attenuator

- Wow-flutter meter
- Frequency counter
- Standard signal generator
- Torque testing cassette gauge CTG-N
- Alignment tape

SEA

3D

Measuring tape : TS-8 (UR)

#### (2) Function of Cassette

#### Condition for Measurement

Power supply . . . . . AC 220-240 V/110-120 V (50/60 Hz) Function position . . TAPE/FM MODE : TAPE NORMAL

DC 12 V

Reference output ... Speaker : 0 dBs (0.775 V)/8 Ω

Headphone :  $-13 \text{ dBs } (0.173 \text{ V})/32 \ \Omega$ 

3D :  $12 \Omega$ 

FUNCTION : NORMAL SPEED

> : Center : OFF

BEAT CUT : NORMAL

Reference Input . . . Ext. MIC : -46 dBs

#### Routine of Check and Adjustment

No.	Item	Measuring Tape	Check and Adjustment	Adjusting Point
1	Tape speed and Wow-flutter check · adjustment	VTT712 (3 kHz)	Play back the end portion of the VTT712 test tape and check up the following standards.  • B Deck: at Normal speed Less than 0.38% (JIS UNWTD)	VR331 Check Check Check
2	High-speed and Synchro dubbing check	VTT712 (3 kHz) TS-8 (UR)	<ol> <li>Loading VTT712 on A Deck and Blank tape TS-8(UR) on B deck.</li> <li>Function position: HIGH SPEED</li> <li>B Deck: REC/PAUSE</li> <li>B Deck pause to be released when playing A Deck, then start High-speed dubbing.</li> <li>High speed: Within 5600 Hz ± 400 Hz to be check</li> </ol>	Check
3	Head azimuth adjustment	VTT703L (10 kHz)	1) Play back VTT703L, both A and B Deck. 2) Obtain maximum Playback output for this adjustment. 3) Phase difference to be minimized. 4) Screw lock to be applied after adjustment.	Left side screw of PB or R/P head
4	Playback out- put level check	VTT724 (1 kHz)	Play back the VTT724 tape on B Deck and confirm that level difference between R and L channels is within 4 dB. (Measuring point: Headphone output)	Check
5	Playback frequency characteristics	VTT736 (1 kHz/125Hz, 1 kHz/8 kHz)	<ol> <li>Play back VTT736 difference level against 1 kHz.         A Deck, B Deck Measuring point : Headphone output 1 kHz/125 Hz : 0 dB ± 4 dB         1 kHz/8 kHz : 1 dB ± 4 dB     </li> <li>Tape mode switched to Metal/CrO<sub>2</sub>         Play back VTT736 and check the difference between 1 kHz and 8 kHz at Headphone output.         B Deck : within -1 dB ± 3 dB     </li> </ol>	Check
6	Bias frequency		<ol> <li>B Deck: REC mode, Beat Cut: Position 1</li> <li>Leakage of Bias at Headphone to be checked with frequency counter.         <ul> <li>72 kHz ± 3 kHz to be adjusted with L321</li> </ul> </li> <li>Bias frequency to be checked for beat cut position 2 and position 3.         <ul> <li>Position 2: 70 kHz ± 3 kHz</li> <li>Position 3: 68 kHz ± 3 kHz</li> </ul> </li> </ol>	L321
7	Rec/Playback frequency characteristics	TS-8 (UR)	Reference signal $-20$ dB to be applied to Mic, and difference level between 125 Hz and 8 kHz against 1 kHz to be checked. 1 kHz/125 Hz: $-2$ dB $\pm$ 4 dB 1 kHz/8 kHz: $+2$ dB $_{-4}^{+5}$ dB	Check
8	Maximum output	VTT722	Play back VTT722. Measuring point: Headphone output Output more than 28 mW (0.95 V) at SEA max.	Check

#### (3) Tuner Section

1.) Condition

Supply voltage: AC 110-120/220-240 V(50/60 Hz)

DC 12 V

Applied voltage of the Tuner: DC 6V

• Reference output : Speaker ; 20 mW (0.4 V)/8  $\Omega$ 

Headphone; 0.3 mW (0.1 V)/32  $\Omega$ 

Input signal: (AM) Modulation frequency; 400 Hz, 30%

(FM) Modulation frequency; 400 Hz, 225 kHz dev.

Set position of Volume and Switch: SEA; Center

3D ; OFF

#### 2.) Attentive point

• Connection of IF sweeper:

Connect a 30 pF capacitor and a 33 k $\Omega$  resistor in series to the sweeper's output while 0.082  $\mu$ F capacitor and a 100 k $\Omega$  resistor in parallel to the input.

• IF sweeper's output level:

Set as minimum as enough for adjustment.

• FM MPX adjustment :

For this adjustment, connect a 100  $k\Omega$  resistor in series to a frequency counter's input.

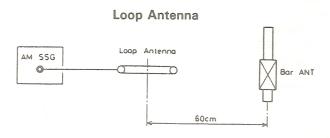
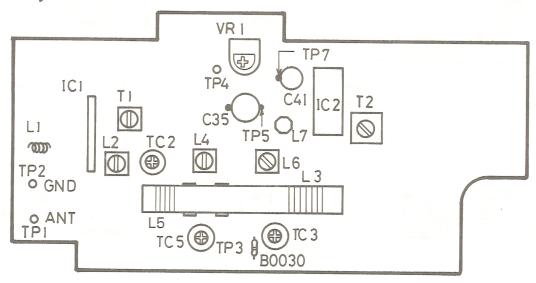


Fig. 7-1

#### Location of Adjustment



**Tuner Board** 

Fig. 7-2

#### Routine of Check and Adjustment

No.	Item	Check Point	Adjustment Position	Condition	Adjustment, Confirmation
1	AM IF adjustment Since the AM IF circuit of this model is non- adjusting subject, do not disturb or adjust T2 unless it needs to be adjusted after repair.		T2	RADIO/AM	In reception of 1404kHz signal, adjust T2 for the best sensitivity.
2	FM IF adjustment  Since the FM IF circuit of this model is non-adjusting subject, do not disturb or adjust T1 unless it needs to be adjusted after repair.  VR1  T1  VR1  T1  TP4  C35  C35  C35  C35  C7	Input: Hot side: Connect a clip to IC1 by clipping it. Output (discriminated) Hot side: TP5 Grounding side: TP7	T1	Tune to a frequency near 108 MHz not to receive any input signal.	1) Remove L7 once to obtain single-peak waveform, and adjust T1 to maximize 10.7 MHz signal level.  2) After the adjustment, set and connect L7 as it was.
3	L5 TC5® <sub>TP3</sub> à	Input through Standard loop antenna Output at TP3  L6 L3 TC 3 0030	L4 L3 TC3 L3, TC3	RADIO/LW	1) Receive 144 kHz signal. 2) Adjust L4 to obtain 1.3 V ± 0.05 V as output level at TP3. 3) In reception of 144 kHz signal adjust L3 to obtain maximum output level. 4) Receiving 290 kHz signal, adjust TC3 to obtain maximum output level. 5) Alternately repeat the above steps 3) and 4) to obtain maximum outputs respectively.
4	L5 TC5 B TR3 Q	Input through Standard loop antenna Output at TP3  L6 L3  TC 3  030	L6 L5 TC5 L5, TC5	RADIO/AM	<ol> <li>Receive 522 kHz signal.</li> <li>Adjust L6 to obtain 1.2 V ± 0.05 V as output level at TP3.</li> <li>In reception of 603 kHz signal adjust L5 to obtain maximum output level.</li> <li>Receiving 1404 kHz signal, adjust TC5 to obtain maximum output level.</li> <li>Alternately repeat the above steps 3) and 4) to obtain maximum outputs respectively.</li> </ol>

No.	Item	Check Point	Adjustment Position	Condition	Adjustment, Confirmation
5	FM RF Tracking adjust- ment  ICI TI LI TI L2 TC TP2 O GND O ANT TP1 TO	Input: TP1 Output: TP3  2 L4  TP3 B0030	L2 TC2 L2, TC2	RADIO/FM	<ol> <li>In reception of 87.5 MHz signal, adjust L1 to obtain 1.1<sup>+0.1</sup><sub>-0.05</sub> V as output level at TP3.</li> <li>After the adjustment, apply wax to L1 to secure it.</li> <li>In reception of 88.0 MHz signal, adjust L2 to obtain maximum output level.</li> <li>In reception of 106 MHz signal, adjust TC2 for maximum output.</li> <li>Alternately repeat the above steps 3) and 4) to obtain maximum outputs respectively.</li> </ol>
6	FM MPX (multiplex) adjustment  VR I  TP4  100 kΩ  Set this a	Output: Hot side: TP4 Grounding side: TP7  TP7  C41 IC2 T2  Valve Voltmeter s near to the clip as poss	VR1 Frequency Cou	RADIO/FM	<ol> <li>Receive FM signal of non-modulated 106 MHz, 60 dB.</li> <li>Connect a valve voltmeter to TP4 with a 100 kΩ resistor between them.</li> <li>In the condition that TP4's output level is set so high that the valve voltmeter reads to the full extent, supply the output from the voltmeter to a frequency counter for measurement.</li> <li>Adjust VR1 so that the frequency counter reads 75.75 ± 0.1 kHz.</li> <li>Check up frequency separation.</li> </ol>

## **8** Block Diagrams

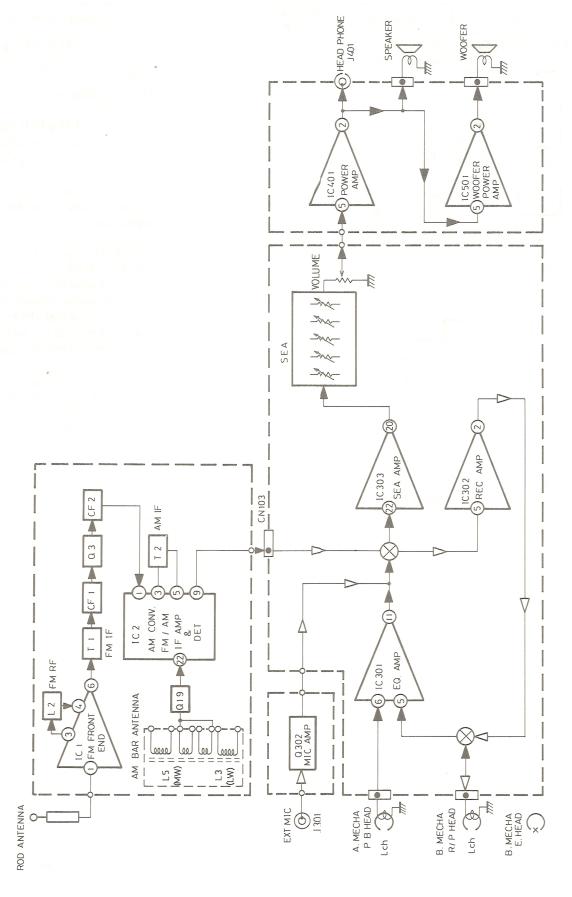
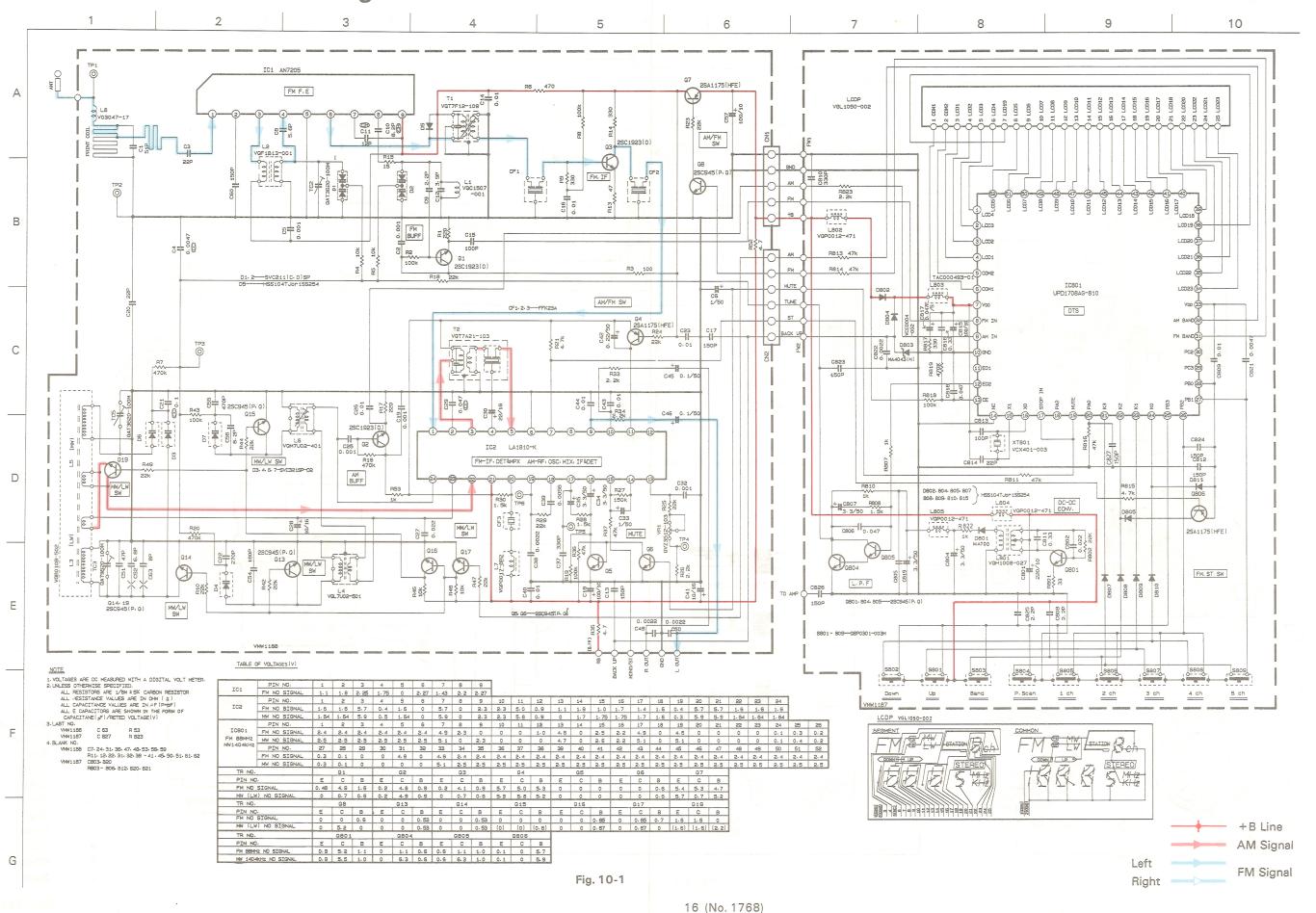


Fig. 8-1

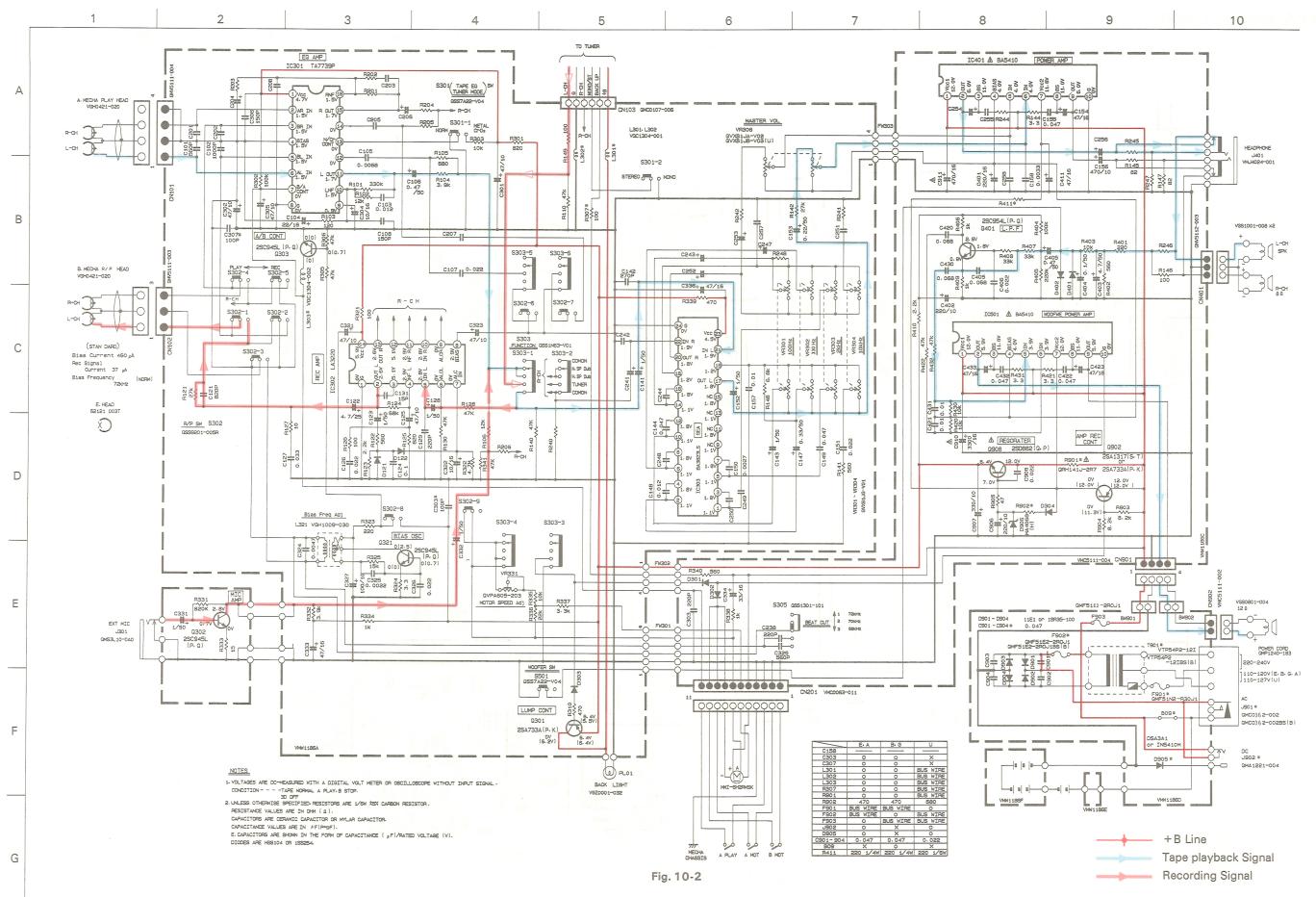
(No. 1768) 15

### **9** Wiring Connections 8 9 10 Synthe. Board Tuner Board T. Antenna Main Board Shield 3D Speaker Pilot Lamp A. Mecha Head B. Mecha Head Mic Amp Board Power Supply To Mecha Chassis B. Mecha Motor Switch Power Amp Board A. Mecha Motor Switch Speaker $\otimes$ Color codes are shown below. Power Trans A.Mecha Play Switch 1 . . . . Brown 2 . . . . Red 3 . . . . Orange 4 . . . . Yellow Batt. Contact Board Batt. Contact Board 5 . . . . Green 6 . . . . . Blue Motor 7 . . . . Violet 8 . . . . Grey G 9 . . . . . White Fig. 9-1 O . . . . . Black

## 10 Standard Schematic Diagram (Tuner Section)

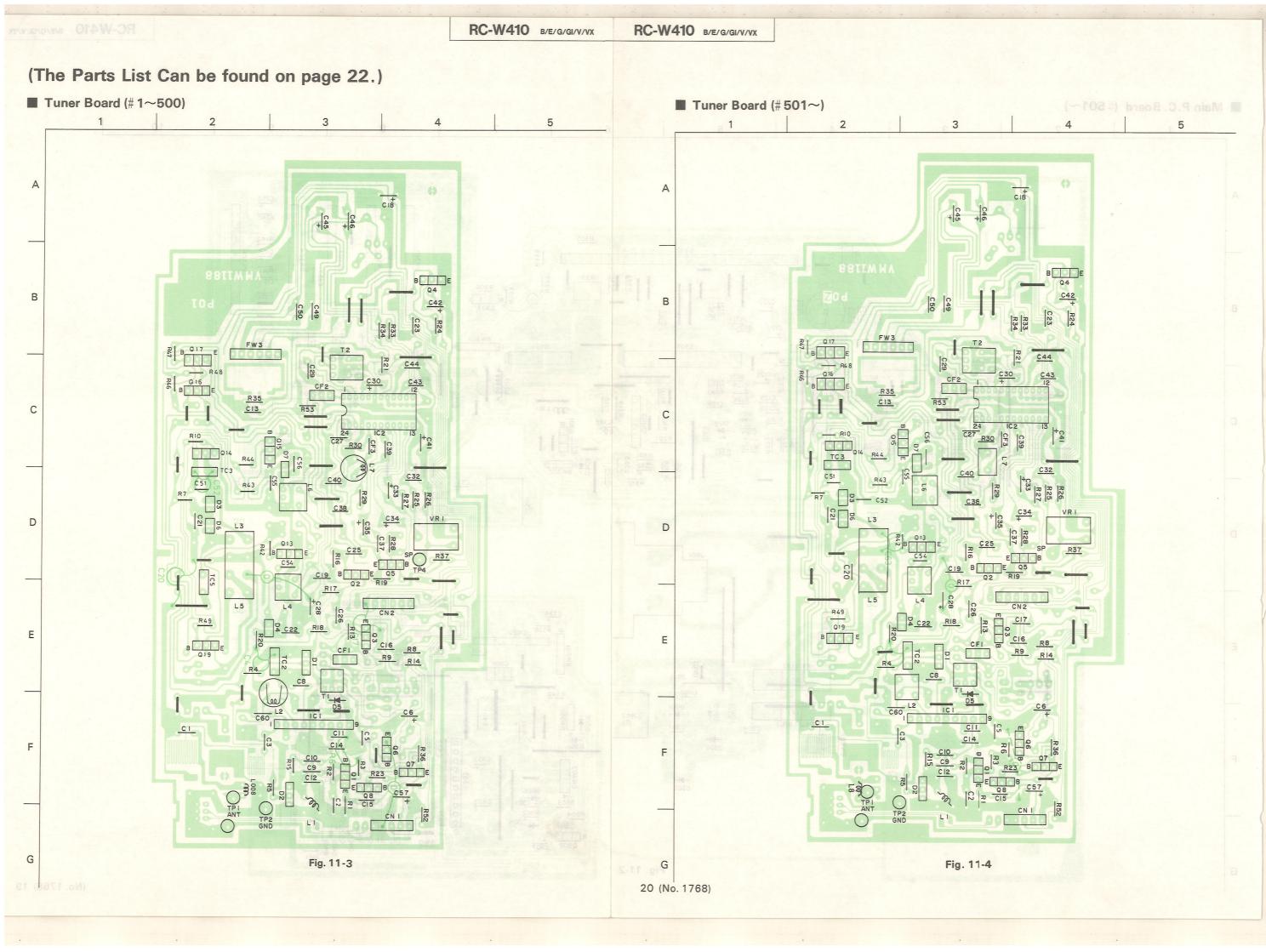


## Standard Schematic Diagram (Amplifier Section)



## 11 Location of P.C. Board and Parts List (The Parts List Can be found on page 21.)

■ Main P.C. Board (#1~500) C101 C102 C202 C201 C306 C204 C331 R331 + R333 O B W 90 OF 000000000001040 Fig. 11-1 18 (No. 1768)



#### ■ Main P.C. Board Parts List

_		T		
1	REF. NO	PARTS NO.	PARTS NAME	DESCRIPTION
-				
	CN101	QMV5011-004	CONNECTOR	
	CN102	QMV5011-003	CONNECTOR	
	CN103	VMC0107-006	SOCKET	
	CN201	VMC0063-011	CONNECTOR	
١.,		QMV5012-003	CONNECTOR	
		QMV5011-004	CONNECTOR	1
		QMV5011-002	CONNECTOR	
		QCBB1HK-561Y	C.CAPACITOR	560PF 10% 50V
		QCS11HJ-681	C.CAPACITOR	680PF 5% 50V
		QCC31EM-123ZV	C.CAPACITOR	.012MF 20% 25V
		QETB1CM-226	E CAPACITOR	22MF 20% 16V
		QCY31HK-682Z QETC1HM-474ZN	C.CAPACITOR E.CAPACITOR	6800PF 10% 50V .47MF 20% 50V
		QCC31EM-223ZV	C CAPACITOR	.022MF 20% 25V
		QCBB1HK-151Y	C CAPACITOR	150PF 10% 50V
		QCS11HJ-821	C.CAPACITOR	820PF 5% 50V
		QETC1EM-475ZN	E.CAPACITOR	4.7MF 20% 25V
		QETC1HM-105ZN	E.CAPACITOR	1.0MF 20% 50V
		QCC31EM-104ZV	C CAPACITOR	.10MF 20% 25V
	C125	QETC1AM-476ZN	E.CAPACITOR	47MF 20% 10V
	C126	QCC31EM-683ZV	C.CAPACITOR	.068MF 20% 25V
	C127	QCC31EM-333ZV	C.CAPACITOR	.033MF# 20% 25V
		QETC1HM-105ZN	E.CAPACITOR	1.0MF 20% 50V
		QCBB1HK-221Y	C.CAPACITOR	220PF 10% 50V
		QCSB1HJ-150Y	C.CAPACITOR	15PF 5% 50V
		QETC1HM-105ZN	E.CAPACITOR	1.0MF 20% 50V
		QCBB1HK-271Y	C CAPACITOR	270PF 10% 50V
		QETC1HM-105ZN QCC31EM-473ZV	E.CAPACITOR C CAPACITOR	1.0MF 20% 50V .047MF 20% 25V
i		QETA1HM-334N	E CAPACITOR	.33MF 20% 50V
ı		QCC11EM-123V	C CAPACITOR	.012MF 20% 25V
			C CAPACITOR	.047MF 20% 25V
			C.CAPACITOR	2700PF 10% 50V
		QCC31EM-223ZV	C CAPACITOR	.022MF 20% 25V
	C152	QETC1HM-105ZN	E.CAPACITOR	1.0MF 20% 50V
		QETC1HM-224ZN	E.CAPACITOR	.22MF 20% 50V
		QETC1CM-476ZN	E.CAPACITOR	47MF 20% 16V
		QCC31EM-473ZV	C CAPACITOR	.047MF 20% 25V
	C156	QETB1AM-477N	E.CAPACITOR	470MF 20% 10V
-	C157		C CAPACITOR	.010MF 20% 25V
			C CAPACITOR C.CAPACITOR	3300PF 20% 16V
			C.CAPACITOR	560PF 10% 50V 680PF 5% 50V
			C.CAPACITOR	.012MF 20% 25V
			E CAPACITOR	22MF 20% 16V
-		QCY31HK-682Z	C.CAPACITOR	6800PF 10% 50V
			E.CAPACITOR	.47MF 20% 50V
			C CAPACITOR	.022MF 20% 25V
	C208	QCBB1HK-151Y	C CAPACITOR	150PF 10% 50V
		QCS11HJ-821	C.CAPACITOR	820PF 5% 50V
			E.CAPACITOR	4.7MF 20% 25V
			E.CAPACITOR	1.0MF 20% 50V
			C CAPACITOR	.10MF 20% 25V
-		QETC1AM-476ZN QCC31EM-683ZV	E.CAPACITOR C.CAPACITOR	47MF 20% 10V .068MF 20% 25V
		QCC31EM-333ZV	C.CAPACITOR	.033MF 20% 25V
			E.CAPACITOR	1.0MF 20% 50V
			C.CAPACITOR	220PF 10% 50V
- 1			C.CAPACITOR	15PF 5% 50V
	C241		E.CAPACITOR	1.0MF 20% 50V
	C242	QCBB1HK-271Y	C CAPACITOR	270PF 10% 50V
			E.CAPACITOR	1.0MF 20% 50V
			C CAPACITOR	.047MF 20% 25V
			E CAPACITOR	.33MF 20% 50V
			C CAPACITOR C CAPACITOR	.012MF 20% 25V
			C.CAPACITOR	.047MF 20% 25V 2700PF 10% 50V
- 1			C CAPACITOR	.022MF 20% 25V
			E.CAPACITOR	1.0MF 20% 50V
			E.CAPACITOR	.22MF 20% 50V
			E.CAPACITOR	47MF 20% 16V
			C CAPACITOR	.047MF 20% 25V
			E.CAPACITOR	470MF 20% 10V
			C CAPACITOR	.010MF 20% 25V
-			C CAPACITOR	3300PF 20% 16V
			E.CAPACITOR	47MF 20% 16V
			E.CAPACITOR C.CAPACITOR	47MF 20% 10V 220PF 10% 50V
			E.CAPACITOR	10MF 20% 16V
			E.CAPACITOR	47MF 20% 16V
			C CAPACITOR	150PF 10% 50V
	C307	QCS11HJ-101	C CAPACITOR	100PF 5% 50V
			E.CAPACITOR	47MF 20% 10V
			E.CAPACITOR	10MF 20% 16V
			E.CAPACITOR	47MF 20% 10V
			M CAPACITOR	4700PF 5% 50V
			C.CAPACITOR	2200PF 10% 50V
			C CAPACITOR E.CAPACITOR	.022MF 20% 25V 100MF 20% 10V
			C.CAPACITOR	220PF 10% 50V
-			C.CAPACITOR	560PF 10% 50V
			E CAPACITOR	1.0MF 20% 50V
			E CAPACITOR	1.0MF 20% 50V
			E.CAPACITOR	47MF 20% 16V
			E CAPACITOR	33MF 20% 16V
1			E CAPACITOR	470MF 20% 10V
			E.CAPACITOR	47MF 20% 16V
Δ			E.CAPACITOR	220MF 20% 16V
			E CAPACITOR	220MF 20% 10V
	C403	QETC1HM-475ZN	E.CAPACITOR	4.7MF 20% 50V

	REF. NO	PARTS NO.	PARTS NAME	DESCRIPTION
	C404	QETC1HM-104ZN	E.CAPACITOR	.10MF 20% 50V
	C405	QETC1HM-474ZN	E.CAPACITOR	.47MF 20% 50V
	C406	QCC31EM-223ZV	C CAPACITOR	.022MF 20% 25V
	C407	QCC31EM-683ZV	C.CAPACITOR	.068MF 20% 25V
-	C411	QETC1CM-476ZN	E.CAPACITOR C.CAPACITOR	47MF 20% 16V
	C420 C421	QCC31EM-683ZV QCVB1CM-103Y	C CAPACITOR	.068MF 20% 25V .010MF 20% 16V
	C422	QCC31EM-473ZV	C CAPACITOR	.047MF 20% 25V
	C423	QFTC1CM-4767N	E.CAPACITOR	47MF 20% 16V
	C430	QCC31EM-683ZV	C.CAPACITOR	.068MF 20% 25V
	C431	QCVB1CM-103Y	C CAPACITOR	.010MF 20% 16V
	C432	QCC31EM-473ZV	C CAPACITOR	.047MF 20% 25V
	C433 C901	QETC1CM-476ZN QCF31HP-473Z	E.CAPACITOR C.CAPACITOR	47MF 20% 16V .047MF +100:-0% 50V
	C902	QCF31HP-473Z	C.CAPACITOR	.047MF +100:-0% 50V
	C903	QCF31HP-473Z	C.CAPACITOR	.047MF +100:-0% 50V
	C904	QCF31HP-473Z	C.CAPACITOR	.047MF +100:-0% 50V
	C906	QETC1AM-227ZN	E CAPACITOR	220MF 20% 10V
	C907	QETC1AM-337ZN	E.CAPACITOR	330MF 20% 10V
	C908	QCF31HP-223Z	C.CAPACITOR	.022MF +100:-0% 50V
Δ	C910	QETB1CM-338N		3300MF 20% 16V
	C911 D121	QETB1CM-477N 1SS254T-77	E CAPACITOR SI DIODE	470MF 20% 16V
	D122	1SS254T-77	SI DIODE	
	D221	1SS254T-77	SI DIODE	
-	D222	1SS254T-77	SI DIODE	
	D301	1SS254T-77	SI DIODE	
	D302	1SS254T-77	SI DIODE	
	D303	1SS254T-77	SI DIODE	
-  -	D304 D401	1SS254T-77 1SS254T-77	SI DIODE	
	D401	1SS254T-77	SI DIODE	
Δ	D901	1SR35-100AT-93	SI DIODE	
Δ	0002	1SR35-100AT-93	SI DIODE	
Δ.	D903	1SR35-100AT-93	SI DIODE	
A	0904	1SR35-100AT-93	SI DIODE DIODE	
Δ	D905 D906	1N5401M	Z DIODE	
Δ	IC301	MA4068(H)TA TA7739P	IC	
	10302	LA3220	īC	
1	IC303	BA3823LS	īc	
Δ	IC401	BA5410	I C	
Δ	IC501	BA5410	IC	
1	J301	QMS3L10-0A0	3.5 JACK(JES)	
:-	J401	VMJ4024-001	JACK AC SOCKET	
	J901 J902	QMC0362-002 QMA1221-004	DC JACK	
Δ	L301	VQC1304-001	COIL	
	L302	VQC1304-001	COIL	
	L303	VQC1304-002	COIL	
	L321	VQH1009-030	OSC COIL(BIAS)	
	PL01	VGZ0001-032	PILOT LAMP	
	Q301	2\$A952(L,K)	TRANSISTOR	
	Q301 Q302	2\$A952(L,K) 2\$C945L(P,Q)-T	TRANSISTOR TRANSISTOR	
	Q301 Q302 Q303	2\$A952(L,K) 2\$C945L(P,Q)-T 2\$C945L(P,Q)-T	TRANSISTOR TRANSISTOR TRANSISTOR	
	Q301 Q302	2SA952(L,K) 2SC945L(P,Q)-T 2SC945L(P,Q)-T 2SC945L(P,Q)-T	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	
Δ	Q301 Q302 Q303 Q321	2\$A952(L,K) 2\$C945L(P,Q)-T 2\$C945L(P,Q)-T	TRANSISTOR TRANSISTOR TRANSISTOR	
_	Q301 Q302 Q303 Q321 Q401 Q901 Q902	2SA952(L,K) 2SC945L(P,Q)-T 2SC945L(P,Q)-T 2SC945L(P,Q)-T 2SC945L(P,Q)-T 2SD882(Q,P) 2SA733A(P,K)-T	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	
<b>A</b>	Q301 Q302 Q303 Q321 Q401 Q901 Q902 R101	2SA952(L,K) 2SC945L(P,Q)-T 2SC945L(P,Q)-T 2SC945L(P,Q)-T 2SC945L(P,Q)-T 2SD882(Q,P) 2SA733A(P,K)-T QRD161J-334Y	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR CARBON RESISTOR	
_	Q301 Q302 Q303 Q321 Q401 Q901 Q902 R101 R102	28A952(L,K) 28C945L(P,Q)-T 28C945L(P,Q)-T 28C945L(P,Q)-T 28C945L(P,Q)-T 28C945L(P,Q)-T 28D882(Q,P) 28A733A(P,K)-T QRD161J-334Y 4RD161J-123Y	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR CARBON RESISTOR CARBON RESISTOR	12K 5% 1/6W
_	Q301 Q302 Q303 Q321 Q401 Q901 Q902 R101 R102 R103	284952(L,K) 285945L(P,Q)-T 285945L(P,Q)-T 285945L(P,Q)-T 285945L(P,Q)-T 285882(Q,P) 2847334(P,K)-T 4RD161J-334Y 4RD161J-123Y 4RD161J-123Y	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR CARBON RESISTOR CARBON RESISTOR CARBON RESISTOR	12K 5% 1/6W 12O 5% 1/6W
_	Q301 Q302 Q303 Q321 Q401 Q901 Q902 R101 R102 R103 R104	2SA952(L,K) 2SC945L(P,Q)-T 2SC945L(P,Q)-T 2SC945L(P,Q)-T 2SC945L(P,Q)-T 2SD882(Q,P) 2SA733A(P,K)-T QRD161J-334Y QRD161J-123Y QRD161J-121Y QRD161J-592Y	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR CARBON RESISTOR CARBON RESISTOR CARBON RESISTOR CARBON RESISTOR	12K 5% 1/6W 120 5% 1/6W 3.9K 5% 1/6W
_	Q301 Q302 Q303 Q321 Q401 Q901 Q902 R101 R102 R103	284952(L,K) 285945L(P,Q)-T 285945L(P,Q)-T 285945L(P,Q)-T 285945L(P,Q)-T 285882(Q,P) 2847334(P,K)-T 4RD161J-334Y 4RD161J-123Y 4RD161J-123Y	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR CARBON RESISTOR	12K 5% 1/6W 120 5% 1/6W 3.9K 5% 1/6W 680 5% 1/6W
_	Q301 Q302 Q303 Q321 Q401 Q901 Q902 R101 R102 R103 R104 R105	284952(L,K) 280945L(P,Q)-T 280945L(P,Q)-T 280945L(P,Q)-T 280945L(P,Q)-T 280945L(P,Q)-T 280945L(P,Q)-T 480161J-334Y 480161J-123Y 480161J-21Y 480161J-392Y 480161J-581Y	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR CARBON RESISTOR CARBON RESISTOR CARBON RESISTOR CARBON RESISTOR	12K 5% 1/6W 12O 5% 1/6W 3.9K 5% 1/6W 68O 5% 1/6W 12K 5% 1/6W
_	Q301 Q302 Q303 Q321 Q401 Q901 Q902 R1001 R102 R103 R104 R105 R106 R110	2SA952(L,K) 2SC945L(P,Q)-T 2SC945L(P,Q)-T 2SC945L(P,Q)-T 2SC945L(P,Q)-T 2SC945L(P,Q)-T 2SD882(Q,P) 2SA733A(P,K)-T QRD161J-334Y QRD161J-334Y QRD161J-23Y QRD161J-681Y QRD161J-681Y QRD161J-123Y	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR CARBON RESISTOR	12K 5% 1/6W 12O 5% 1/6W 3.9K 5% 1/6W 68O 5% 1/6W 12K 5% 1/6W 47K 5% 1/6W
_	Q301 Q302 Q303 Q321 Q401 Q901 Q902 R103 R102 R103 R104 R105 R106 R110 R121	2SA952(L,K) 2SC945L(P,Q)-T 2SC945L(P,Q)-T 2SC945L(P,Q)-T 2SC945L(P,Q)-T 2SC945L(P,Q)-T 2SD882(Q,P) 2SA733A(P,K)-T QRD161J-334Y QRD161J-334Y QRD161J-233Y QRD161J-681Y QRD161J-233Y QRD161J-273Y QRD161J-273Y QRD161J-273Y QRD161J-273Y QRD161J-561Y	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR CARBON RESISTOR	12K 5% 1/6W 120 5% 1/6W 3.9K 5% 1/6W 680 5% 1/6W 12K 5% 1/6W 27K 5% 1/6W 27K 5% 1/6W
_	Q301 Q302 Q303 Q321 Q401 Q901 Q902 R101 R102 R103 R104 R105 R106 R110 R1121 R122 R123	284952(L,K) 28C945L(P,Q)-T 28C945L(P,Q)-T 28C945L(P,Q)-T 28C945L(P,Q)-T 28C945L(P,Q)-T 28D882(Q,P) 28A733A(P,K)-T GRD161J-323Y GRD161J-123Y GRD161J-123Y GRD161J-681Y GRD161J-73Y GRD161J-73Y GRD161J-73Y GRD161J-23Y GRD161J-23Y	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR CARBON RESISTOR	12K 5% 1/6W 120 5% 1/6W 3.9K 5% 1/6W 680 5% 1/6W 12K 5% 1/6W 47K 5% 1/6W 27K 5% 1/6W 500 5% 1/6W 2.2K 5% 1/6W
_	Q301 Q302 Q303 Q321 Q401 Q901 Q902 R101 R102 R103 R104 R106 R110 R122 R123 R124	2SA952(L,K) 2SC945L(P,Q)-T 2SC945L(P,Q)-T 2SC945L(P,Q)-T 2SC945L(P,Q)-T 2SC945L(P,Q)-T 2SD882(Q,P) 2SA733A(P,K)-T QRD161J-334Y QRD161J-334Y QRD161J-23Y QRD161J-681Y QRD161J-73Y QRD161J-73Y QRD161J-73Y QRD161J-73Y QRD161J-681Y QRD161J-622Y QRD161J-622Y QRD161J-622Y QRD161J-622Y	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR CARBON RESISTOR	126 % 1/6W 120 5% 1/6W 3.9K 5% 1/6W 680 5% 1/6W 12K 5% 1/6W 47K 5% 1/6W 27K 5% 1/6W 560 5% 1/6W 2.2K 5% 1/6W 68K 5% 1/6W
_	Q301 Q302 Q303 Q321 Q401 Q901 Q902 R100 R103 R104 R105 R106 R110 R122 R123 R124 R125	284952(L,K) 28C945L(P,Q)-T 28C945L(P	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR CARBON RESISTOR	12K 5% 1/6W 120 5% 1/6W 120 5% 1/6W 680 5% 1/6W 12K 5% 1/6W 17K 5% 1/6W 17K 5% 1/6W 17K 5% 1/6W 17K 5% 1/6W 17K 5% 1/6W 180 5% 1/6W 180 5% 1/6W
_	Q301 Q302 Q303 Q321 Q401 Q901 Q902 R101 R102 R103 R104 R105 R106 R110 R122 R123 R124 R125 R126	2SA952(L,K) 2SC945L(P,Q)-T 2SC945L(P,Q)-T 2SC945L(P,Q)-T 2SC945L(P,Q)-T 2SC945L(P,Q)-T 2SD882(Q,P) 2SA733A(P,K)-T RRD161J-334Y RRD161J-121Y RRD161J-123Y RRD161J-681Y RRD161J-73Y	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR CARBON RESISTOR	126 % 1/6W 120 5% 1/6W 3.9K 5% 1/6W 680 5% 1/6W 12K 5% 1/6W 17K 5% 1/6W 27K 5% 1/6W 560 5% 1/6W 560 5% 1/6W 68K 5% 1/6W 180 5% 1/6W 180 5% 1/6W
_	Q301 Q302 Q303 Q321 Q401 Q901 Q902 R100 R103 R104 R105 R106 R110 R122 R123 R124 R125	2SA952(L,K) 2SC945L(P,Q)-T 2SC945L(P	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR CARBON RESISTOR	12K 5% 1/6W 12O 5% 1/6W 3.9K 5% 1/6W 68O 5% 1/6W 12K 5% 1/6W 27K 5% 1/6W 27K 5% 1/6W 27K 5% 1/6W 2.2K 5% 1/6W 8.2K 5% 1/6W 18O 5% 1/6W 18O 5% 1/6W 10 5% 1/6W
_	Q301 Q302 Q303 Q321 Q401 Q901 Q901 R102 R103 R104 R105 R106 R110 R122 R123 R124 R125 R126 R127	2SA952(L,K) 2SC945L(P,Q)-T 2SC945L(P,Q)-T 2SC945L(P,Q)-T 2SC945L(P,Q)-T 2SC945L(P,Q)-T 2SD882(Q,P) 2SA733A(P,K)-T RRD161J-334Y RRD161J-121Y RRD161J-123Y RRD161J-681Y RRD161J-73Y	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR CARBON RESISTOR	12K 5% 1/6W 120 5% 1/6W 120 5% 1/6W 680 5% 1/6W 12K 5% 1/6W 12K 5% 1/6W 17K 5% 1/6W 27K 5% 1/6W 560 5% 1/6W 2.2K 5% 1/6W 88 5% 1/6W 180 5% 1/6W 33 5% 1/6W 10 5% 1/6W 10 5% 1/6W 10 5% 1/6W
_	Q301 Q302 Q303 Q321 Q401 Q901 Q902 R101 R102 R103 R104 R105 R106 R111 R122 R123 R124 R125 R126 R126 R127 R128	284952(L,K) 280945L(P,Q)-T 280945L(P,Q)-T 280945L(P,Q)-T 280945L(P,Q)-T 280882(Q,P) 2847334(P,K)-T QRD161J-123Y QRD161J-123Y QRD161J-123Y QRD161J-123Y QRD161J-473Y QRD161J-473Y QRD161J-681Y QRD161J-681Y QRD161J-681Y QRD161J-683Y QRD161J-81Y QRD161J-81Y QRD161J-81Y QRD161J-81Y QRD161J-81Y QRD161J-81Y QRD161J-81Y QRD161J-181Y QRD161J-181Y QRD161J-181Y QRD161J-181Y QRD161J-181Y QRD161J-181Y QRD161J-181Y QRD161J-181Y QRD161J-181Y	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR CARBON RESISTOR	12K 5% 1/6W 120 5% 1/6W 120 5% 1/6W 680 5% 1/6W 12K 5% 1/6W 12K 5% 1/6W 17K 5% 1/6W 16W 500 5% 1/6W 16W 500 5% 1/6W 180 5% 1/6W
_	Q301 Q302 Q303 Q321 Q401 Q901 Q902 R101 R102 R103 R104 R105 R106 R1121 R122 R123 R124 R125 R126 R127 R128 R130 R140	2SA952(L,K) 2SC945L(P,Q)-T 2SC945L(P,Q)-T 2SC945L(P,Q)-T 2SC945L(P,Q)-T 2SC945L(P,Q)-T 2SD882(Q,P) 2SA733A(P,K)-T RRD161J-334Y RRD161J-121Y RRD161J-123Y RRD161J-681Y RRD161J-73Y RRD161J-73Y RRD161J-683Y RRD161J-683Y RRD161J-121Y RRD161J-121Y RRD161J-121Y RRD161J-121Y RRD161J-122Y RRD161J-122Y RRD161J-122Y RRD161J-122Y RRD161J-122Y RRD161J-123Y RRD161J-123Y RRD161J-123Y RRD161J-123Y RRD161J-133Y RRD161J-73Y RRD161J-73Y	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR CARBON RESISTOR	12K 5% 1/6W 12O 5% 1/6W 3.9K 5% 1/6W 12K 5% 1/6W 12K 5% 1/6W 17K 5% 1/6W 27K 5% 1/6W 56O 5% 1/6W 2.2K 5% 1/6W 80K 5% 1/6W 18O 5% 1/6W 10 5% 1/6W 10 5% 1/6W 3.3K 5% 1/6W 47K 5% 1/6W 47K 5% 1/6W 47K 5% 1/6W 56O 5% 1/6W
_	Q301 Q302 Q303 Q321 Q401 Q901 Q902 R101 R103 R104 R105 R106 R110 R121 R122 R123 R124 R125 R126 R127 R128 R128 R128 R130 R140 R140 R140 R140 R140 R140 R140 R14	284952(L,K) 280945L(P,Q)-T 280945L(P,Q)-T 280945L(P,Q)-T 280945L(P,Q)-T 280882(Q,P) 2847334(P,K)-T 2810161J-123Y 2810161J-123Y 2810161J-123Y 2810161J-123Y 2810161J-123Y 2810161J-123Y 2810161J-23Y 2810161J-683Y 2810161J-683Y 2810161J-683Y 2810161J-683Y 2810161J-683Y 2810161J-683Y 2810161J-330Y 2810161J-330Y 2810161J-332Y 2810161J-33Y	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR CARBON RESISTOR	12K 5% 1/6W 12O 5% 1/6W 3.9K 5% 1/6W 68O 5% 1/6W 12K 5% 1/6W 27K 5% 1/6W 27K 5% 1/6W 27K 5% 1/6W 68C 5% 1/6W 18O 5% 1/6W 18O 5% 1/6W 18O 5% 1/6W 18O 5% 1/6W 47K 5% 1/6W
_	Q301 Q302 Q303 Q321 Q401 Q901 Q902 R101 R102 R103 R104 R105 R106 R1121 R122 R123 R124 R125 R126 R127 R128 R130 R141 R142 R144 R142 R144	2SA952(L,K) 2SC945L(P,Q)-T 2SC945L(P,Q)-T 2SC945L(P,Q)-T 2SC945L(P,Q)-T 2SC945L(P,Q)-T 2SC945L(P,Q)-T 2SC945L(P,Q)-T 2SD882(Q,P) 2SA733A(P,K)-T QRD161J-33Y QRD161J-123Y QRD161J-681Y QRD161J-681Y QRD161J-273Y QRD161J-273Y QRD161J-261Y QRD161J-330Y QRD161J-181Y QRD161J-330Y QRD161J-73Y	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR CARBON RESISTOR	12K 5% 1/6W 12O 5% 1/6W 3.9K 5% 1/6W 12K 5% 1/6W 12K 5% 1/6W 17K 5% 1/6W 27K 5% 1/6W 56O 5% 1/6W 2.2K 5% 1/6W 80 5% 1/6W 18O 5% 1/6W 10 5% 1/6W 10 5% 1/6W 3.3K 5% 1/6W 47K 5% 1/6W 3.3K 5% 1/6W 27K 5% 1/6W 3.3K 5% 1/6W 27K 5% 1/6W 3.3K 5% 1/6W 27K 5% 1/6W 3.3K 5% 1/6W 27K 5% 1/6W
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_	Q301 Q302 Q303 Q321 Q401 Q901 Q902 R101 R102 R103 R104 R105 R106 R111 R122 R123 R124 R125 R126 R126 R127 R128 R128 R144 R141 R142 R144 R144 R144 R144 R144	2SA952(L,K) 2SC945L(P,Q)-T 2SC945L(P,Q)-T 2SC945L(P,Q)-T 2SC945L(P,Q)-T 2SC945L(P,Q)-T 2SC945L(P,Q)-T 2SD882(Q,P) 2SA733A(P,K)-T RRD161J-323Y RRD161J-123Y RRD161J-123Y RRD161J-223Y RRD161J-273Y RRD161J-273Y RRD161J-273Y RRD161J-273Y RRD161J-363Y RRD161J-363Y RRD161J-363Y RRD161J-363Y RRD161J-373Y RRD161J-473Y RRD161J-473Y RRD161J-473Y RRD161J-473Y RRD161J-473Y RRD161J-473Y RRD161J-473Y RRD161J-332Y RRD161J-332Y RRD161J-333Y RRD161J-333Y RRD161J-333Y RRD161J-333Y RRD161J-373Y RRD161J-383Y RRD161J-383Y RRD161J-383Y RRD161J-383Y RRD161J-383Y RRD161J-101Y	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR CARBON RESISTOR CARBON	12K 5% 1/6W 12O 5% 1/6W 3.9K 5% 1/6W 3.9K 5% 1/6W 12K 5% 1/6W 27K 5% 1/6W 27K 5% 1/6W 56O 5% 1/6W 56O 5% 1/6W 18O 5% 1/6W 18O 5% 1/6W 10 5% 1/6W 10 5% 1/6W 3.3K 5% 1/6W 47K 5% 1/6W 56O 5% 1/6W 56O 5% 1/6W 57K 5% 1/6W
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_	Q301 Q302 Q303 Q321 Q401 Q901 Q902 R101 R102 R103 R104 R106 R1121 R122 R123 R124 R125 R126 R127 R128 R124 R126 R144 R144 R145 R144 R145 R146 R147 R148 R149 R149 R149 R149 R149 R149 R149 R149	2SA952(L,K) 2SC945L(P,Q)-T 2SC945L(P	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR CARBON RESISTOR CARBON	12K 5% 1/6W 12O 5% 1/6W 3.9K 5% 1/6W 3.9K 5% 1/6W 12K 5% 1/6W 27K 5% 1/6W 27K 5% 1/6W 560 5% 1/6W 560 5% 1/6W 180 5% 1/6W 180 5% 1/6W 180 5% 1/6W 10 5% 1/6W 10 5% 1/6W 10 5% 1/6W 27K 5% 1/6W 3.3K 5% 1/6W 47K 5% 1/6W 47K 5% 1/6W 3.3K 5% 1/6W 82 5% 1/6W 83 5% 1/6W
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_	Q301 Q302 Q303 Q321 Q401 Q901 Q902 R101 R102 R103 R104 R105 R106 R1121 R122 R124 R125 R124 R127 R128 R126 R127 R128 R126 R141 R142 R144 R142 R144 R145 R147 R147 R147 R148 R147 R147 R147 R148 R147 R147 R148 R147 R147 R148 R147 R148 R147 R148 R147 R148 R147 R148 R147 R148 R147 R148 R148 R149 R149 R149 R149 R149 R149 R149 R149	284952(L,K) 285945L(P,Q)-T 285945L(P,Q)-T 285945L(P,Q)-T 285945L(P,Q)-T 285945L(P,Q)-T 285945L(P,Q)-T 285945L(P,Q)-T 285982(Q,P) 2847334(P,K)-T 480161J-334Y 480161J-123Y 480161J-681Y 480161J-73Y 480161J-73Y 480161J-83Y 480161J-83Y 480161J-123Y 480161J-233Y 480161J-223Y 480161J-223Y 480161J-223Y 480161J-223Y 480161J-223Y	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR CARBON RESISTOR	12K 5% 1/6W 12O 5% 1/6W 3.9K 5% 1/6W 680 5% 1/6W 12K 5% 1/6W 47K 5% 1/6W 560 5% 1/6W 560 5% 1/6W 180 5% 1/6W 180 5% 1/6W 180 5% 1/6W 180 5% 1/6W 10 5% 1/6W 560 5% 1/6W 47K 5% 1/6W 560 5% 1/6W 57K 5% 1/6W 582 5% 1/6W 100 5% 1/6W 82 5% 1/6W 83 5% 1/6W 83 5% 1/6W 83 5% 1/6W 84 5% 1/6W 85 5% 1/6W 85 5% 1/6W 86 5% 1/6W 87K 5% 1/6W 87K 5% 1/6W 88 5% 1/6W 89 5% 1/6W 80 5% 1/6W
_	Q301 Q302 Q303 Q321 Q401 Q901 Q901 R101 R102 R103 R104 R105 R106 R1121 R122 R123 R124 R125 R126 R126 R127 R128 R144 R144 R145 R146 R147 R148 R146 R147 R148 R146 R147 R148 R149 R200 R200 R200 R200 R200 R200 R200 R20	2SA952(L,K) 2SA952(L,K) 2SC945L(P,Q)-T 2SC945L(P,Q)-T 2SC945L(P,Q)-T 2SC945L(P,Q)-T 2SC945L(P,Q)-T 2SC945L(P,Q)-T 2SC945L(P,Q)-T 2SD882(Q,P) 2SA733A(P,K)-T RD161J-323Y RD161J-323Y RD161J-681Y RD161J-73Y RD161J-73Y RD161J-63Y RD161J-63Y RD161J-63Y RD161J-63Y RD161J-63Y RD161J-73Y RD161J-761Y	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR CARBON RESISTOR CARBON RESI	12K 5% 1/6W 12O 5% 1/6W 3.9K 5% 1/6W 3.9K 5% 1/6W 12K 5% 1/6W 27K 5% 1/6W 27K 5% 1/6W 56O 5% 1/6W 68K 5% 1/6W 18O 5% 1/6W 18O 5% 1/6W 18O 5% 1/6W 10 5% 1/6W 10 5% 1/6W 25 5% 1/6W 25 5% 1/6W 47K 5% 1/6W 3.3K 5% 1/6W 56O 5% 1/6W 27K 5% 1/6W 27K 5% 1/6W 27K 5% 1/6W 3.3K 5% 1/6W 68O 5% 1/6W 82 5% 1/6W 83 5% 1/6W 82 5% 1/6W 83 5% 1/6W 84 5% 1/6W 85 5% 1/6W 86 5% 1/6W 87 5% 1/6W 88 5% 1/6W 88 5% 1/6W 89 5% 1/6W 89 5% 1/6W 81 5% 1/6W 81 5% 1/6W 82 5% 1/6W 83 5% 1/6W 84 5% 1/6W 85 5% 1/6W 86 5% 1/6W 87 5% 1/6W 88 5% 1/6W 88 5% 1/6W 88 5% 1/6W 88 5% 1/6W
_	Q301 Q302 Q303 Q321 Q401 Q901 Q901 R103 R104 R105 R106 R110 R121 R122 R123 R124 R125 R126 R127 R128 R126 R127 R128 R126 R144 R144 R144 R144 R144 R144 R144 R14	284952(L,K) 285945L(P,Q)-T 285945L(P,Q)-T 285945L(P,Q)-T 285945L(P,Q)-T 285945L(P,Q)-T 285945L(P,Q)-T 285945L(P,Q)-T 285982(Q,P) 2847334(P,K)-T 480161J-334Y 480161J-123Y 480161J-681Y 480161J-73Y 480161J-73Y 480161J-83Y 480161J-83Y 480161J-123Y 480161J-233Y 480161J-223Y 480161J-223Y 480161J-223Y 480161J-223Y 480161J-223Y	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR CARBON RESISTOR CARBON RESI	12K 5% 1/6W 12O 5% 1/6W 3.9K 5% 1/6W 680 5% 1/6W 12K 5% 1/6W 47K 5% 1/6W 560 5% 1/6W 560 5% 1/6W 560 5% 1/6W 180 5% 1/6W 12K 5% 1/6W 180 5% 1/6W 180 5% 1/6W 180 5% 1/6W
_	Q301 Q303 Q303 Q303 Q301 Q401 Q901 Q902 R101 R102 R103 R104 R106 R110 R121 R122 R123 R124 R125 R126 R127 R128 R126 R127 R128 R144 R147 R144 R144 R145 R147 R148 R149 R202 R203 R204 R205 R206 R210 R221 R222 R223 R223 R225	284952(L,K) 28C945L(P,Q)-T 28C945L(P	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR CARBON RESISTOR	12K 5% 1/6W 12O 5% 1/6W 3.9K 5% 1/6W 680 5% 1/6W 12K 5% 1/6W 47K 5% 1/6W 560 5% 1/6W 560 5% 1/6W 560 5% 1/6W 180 5% 1/6W 12K 5% 1/6W 180 5% 1/6W 180 5% 1/6W 180 5% 1/6W

۵	REF. NO	PARTS NO.	PARTS NAME	DESCRIPTION
1	R240	QRD161J-473Y	CARBON RESISTOR	47K 5% 1/6W
- 1	R241	QRD161J-561Y	CARBON RESISTOR	560 5% 1/6W
-	R242	QRD161J-273Y	CARBON RESISTOR	27K 5% 1/6W
-	R245	QRD161J-820Y	CARBON RESISTOR	
-	R246	QRD161J-101Y	CARBON RESISTOR	
-	R247	QRD161J-820Y	CARBON RESISTOR	
- 1	R248	QRD161J-682	CARBON RESISTOR	
- 1	R249	QRD143J-101S	CARBON RESISTOR	
- 1	R301	QRD161J-821Y	CARBON RESISTOR	
-1	R302	QRD161J-104Y	CARBON RESISTOR	
-	R303	QRD161J-103Y	CARBON RESISTOR	
- 1	R305	QRD161J-473Y	CARBON RESISTOR	
- 1	R306	QRD161J-473Y	CARBON RESISTOR	
- 1		QRD143J-101S	CARBON RESISTOR	
- 1	R307		CARBON RESISTOR	
-	R308	QRD161J-820		
- 1	R310	QRD161J-471Y	CARBON RESISTOR	
- 1	R321	QRD161J-101Y	CARBON RESISTOR	
- 1	R322	QRD161J-475YT	C RESISTOR	4.7M 5% 1/6W
- 1	R323	QRD161J-221Y	CARBON RESISTOR	
.	R324	QRD161J-3R3Y	CARBON RESISTOR	
- 1	R325	QRD161J-153Y	CARBON RESISTOR	
- 1	R331	QRD161J-824Y	CARBON RESISTOR	
- 1	R332	QRD161J-392Y	CARBON RESISTOR	
- 1	R333	QRD143J-150S	CARBON RESISTOR	
	R334	QRD161J-102Y	CARBON RESISTOR	
	R335	QRD161J-103Y	CARBON RESISTOR	
	R336	QRD161J-223Y	CARBON RESISTOR	22K 5% 1/6W
- 1	R337	QRD161J-332Y	CARBON RESISTOR	
- 1	R338	QRD161J-102Y	CARBON RESISTOR	1.0K 5% 1/6W
	R339	QRD161J-471Y	CARBON RESISTOR	470 5% 1/6W
	R340	QRD161J-561Y	CARBON RESISTOR	560 5% 1/6W
- 1	R341	QRD161J-473Y	CARBON RESISTOR	47K 5% 1/6W
- 1	R401	QRD161J-221Y	CARBON RESISTOR	220 5% 1/6W
- 1	R402	QRD161J-561Y	CARBON RESISTOR	
- 1	R403	QRD161J-103Y	CARBON RESISTOR	10K 5% 1/6W
-	R404	QRD161J-104Y	CARBON RESISTOR	
	R405	QRD143J-224S	CARBON RESISTOR	
	R406	QRD161J-102Y	CARBON RESISTOR	
1	R407	QRD161J-333Y	CARBON RESISTOR	
	R408	QRD161J-333Y	CARBON RESISTOR	
-	R409	QRD161J-102Y	CARBON RESISTOR	
	R410	QRD161J-222Y	CARBON RESISTOR	
	R410	QRD143J-221S	CARBON RESISTOR	
1	R411	QRD161J-103Y	CARBON RESISTOR	
			CARBON RESISTOR	
-	R421	QRD161J-3R3Y	CARBON RESISTOR	
	R422	QRD161J-473Y		
	R430	QRD161J-103Y	CARBON RESISTOR	
	R431	QRD161J-3R3Y	CARBON RESISTOR	
	R432	QRD161J-473Y	CARBON RESISTOR	
A	R901	QRH141J-2R7	FUSI RESISTOR	2.7 5% 1/4W

REF. NO	PARTS NO.	PARTS NAME	DESCRIPTION	J
R902 R903 R904 R905 S301	QRD161J-471Y QRD161J-822Y QRD161J-822Y QRD144J-470S QSS7A22-V04	CARBON RESISTOR CARBON RESISTOR CARBON RESISTOR CARBON RESISTOR SLIDE SW	8.2K 5% 1/6W 8.2K 5% 1/6W	
\$302 \$303 \$305 \$501 VR301	QSS9201-005R QSS1N63-V01 QSS1301-101 QSS7A22-V04 QVXB1JG-V01	SLIDE SWITCH SLIDE SW SLIDE SWITCH SLIDE SW V RESISTOR		
VR302 VR303 VR304 VR306 VR331	QVXB1JG-V01 QVXB1JG-V01 QVXB1JG-V01 QVXB1JA-V02 QVPA605-203	V RESISTOR V RESISTOR V RESISTOR V.RESISTOR V RESISTOR		
	05 2507.5		######################################	100 500 100 100
				100 100 100
			4.1223	e 11 1

#### Comparison Table between RC-W410E and RC-W410B

#### ■ Power Supply Board Section

			Parts No.	
$\triangle$	Ref. No.		Parts No.	Parts Name
Z-15	1101.140.	RC-W410E	RC-W410B	100 100 100 100 100
Δ	T901	VTP54P2-12I	VTP54P2-12IBS	Power Trans
	D905	DSA3A1	_	Si Diode
	D905	IN5401Ni	— ·	Diode
$\triangle$	F903	QMF51E2-2ROJ1	QMF51E2-2ROJ1BS	Fuse
Δ	_	_	QMF51XX-2R5BS	Fuse
Δ	J901	QMC0362-002	_	AC Socket
	_	_	QMC0362-002BS	AC Socket
Δ	J902	QMA1221-004	_	DC Jack

(No. 1768) 21

## ■ Tuner Board Parts List

•	DEE NO	DADES NO	DARGO MANO	nnaani nni au
Δ	REF. NO	PARTS NO.	PARTS NAME	DESCRIPTION
	₩ CFO1	FFK23A	C FILTER KIT	TA-LISTORD SOOR
	CNO1	VMC0107-005	CONNECTOR	SS-Craidso Eogs
	CNOS	VMC0107-006	SOCKET	S8-t101089 8098
	C001 C002	QCSB1HJ-510Y	C CAPACITOR	51PF 5% 50V
	C002	QCBB1HK-102Y QCSB1HJ-220Y	C CAPACITOR C.CAPACITOR	1000PF 10% 50V 22PF 5% 50V
	0004	QCC11EM-473V	C.CAPACITOR	.047MF 20% 25V
1	C005	QCBB1HK-102Y	C CAPACITOR	1000PF 10% 50V
1	0006	QETC1HM-105ZN	E.CAPACITOR	1.0MF 20% 50V
	C008	QCSB1HK-5R6Y	C CAPACITOR	5.6PF 10% 50V
	C009	QCT30CH-2R2Y	C.CAPACITOR	2.2PF 5% 50V
	C010	QCT30CH-8R2Y	C.CAPACITO,R	8.2PF 5% 50V
	C011	QCT30CH-120Y	C CAPACITOR	12PF 5% 50V
	C012	QCT30CH-3R9Y	C CAPACITOR C CAPACITOR	3.9PF 5% 50V
-	C014	QCBB1HK-151Y QCVB1CM-103Y	C CAPACITOR	150PF 10% 50V .010MF 20% 16V
	C015	QCBB1HK-101Y	C CAPACITOR	100PF 10% 50V
	C016	QCVB1CM-103Y	C CAPACITOR	.010MF 20% 16V
	C017	QCBB1HK-151Y	C CAPACITOR	150PF 10% 50V
_	C018	QETC1AM-107ZN	E.CAPACITOR	100MF 20% 10V
1	C019	QCBB1HK-102Y	C CAPACITOR	1000PF 10% 50V
	0020	QCSB1HJ-220Y	C.CAPACITOR	22PF 5% 50V
	C021	QCC31EM-104ZV	C CAPACITOR	.10MF 20% 25V
1	0023	QCS31HJ-271Z QCVB1CM-103Y	C.CAPACITOR C CAPACITOR	270PF 5% 50V .010MF 20% 16V
-	C025	QCBB1HK-102Y	C CAPACITOR	1000PF 10% 50V
		QCF31HP-103Z	C.CAPACITOR	.010MF +100:-0% 50V
	C027	QCF31HP-223Z	C.CAPACITOR	.022MF +100:-0% 50V
	C028	QETC1CM-106ZN	E.CAPACITOR	10MF 20% 16V
-	C029	QCC31EM-473ZV	C CAPACITOR	.047MF 20% 25V
	C030	QETC1CM-226ZN	E.CAPACITOR	22MF 20% 16V
		QFS41HJ-102 QETC1HM-105ZN	P.S.CAPACITOR	1000PF 5% 50V
		QETC1HM-105ZN	E.CAPACITOR E.CAPACITOR	1.0MF 20% 50V 3.3MF 20% 50V
1		QETC1HM-335ZN	E.CAPACITOR	3.3MF 20% 50V
1		QCBB1HK-331Y	C.CAPACITOR	3.3MF 20% 50V 3.3MF 20% 50V 330PF 10% 50V 2200PF 20% 16V
1	C038	QCXB1CM-222Y	C CAPACITOR	
		QCXB1CM-562Y	C CAPACITOR	5600PF 20% 16V
		QCF31HP-103Z	C.CAPACITOR	.010MF +100:-0% 50V
+		QETC1CM-106ZN	E.CAPACITOR	10MF 20% 16V
I		QETC1HM-224ZN QCC31EM-103ZV	E.CAPACITOR C CAPACITOR	.22MF 20% 50V
		QCC31EM-103ZV	C CAPACITOR C CAPACITOR	.010MF 20% 25V .010MF 20% 25V
١		QETC1HM-104ZN	E.CAPACITOR	.10MF 20% 50V
1		QETC1HM-104ZN	E.CAPACITOR	.10MF 20% 50V
1		QCXB1CM-222Y	C CAPACITOR	2200PF 20% 16V
		QCXB1CM-222Y	C CAPACITOR	2200PF 20% 16V
		QCSB1HJ-470Y	C CAPACITOR	47PF 5% 50V
		QCSB1HK-6R8Y	C CAPACITOR	6.8PF 10% 50V
+	C054 C055	QCBB1HK-181Y QCS31HJ-471Z	C.CAPACITOR C.CAPACITOR	180PF 10% 50V 470PF 5% 50V
1		QCT30CH-8R2Y	C.CAPACITOR C.CAPACITOR	470PF 5% 50V 8.2PF 5% 50V
1		QETC1AM-107ZN	E.CAPACITOR	100MF 20% 10V
		QCBB1HK-151Y	C CAPACITOR	150PF 10% 50V
L		QCS11HJ-8RO	C.CAPACITOR	8.0PF 5% 50V
-		SVC211(C,D)SP	VARI.CAP	authi
1		SVC211(C,D)SP	VARI.CAP	
١		SVC321SP-D2 SVC321SP-D2	V.DIODE V.DIODE	
١		HSS104TJ	SI DIODE	
ŀ		SVC321SP-D2	V.DIODE	
1		SVC321SP-D2	V.DIODE	
		AN7205	IC	
		LA1810-K	IC	
1		VQC1507-001	INDUCTOR	401711-011
-		VQF1B13-001	RF COIL	
1		VQB010B-502 VQL7U02-501	DSC COLL (LW)	
1		VQB010B-502	OSC COIL(LW) BAR ANTENA	
1		VQM7U02-401	OSC COIL (MW)	
1		VQP0012-8R2	INDUCTOR	
1	L008	V03047-17	COIL	
		2SC1923(0)E2	TRANSISTOR	
		2SC1923(0)E2	TRANSISTOR	
		2SC1923(0)E2 2SA1175(HFE)-T	TRANSISTOR TRANSISTOR	
		2SC945(P,Q)-T	TRANSISTOR	
-		2SC945(P,Q)-T	TRANSISTOR	
		2SA1175(HFE)-T	TRANSISTOR	
	8009	2SC945(P,Q)-T	TRANSISTOR	
ĺ	Q013	2SC945(P,Q)-T	TRANSISTOR	
		2SC945(P,Q)-T	TRANSISTOR	
		2SC945(P,Q)-T	TRANSISTOR	
	Q016 Q017	2SC945(P,Q)-T 2SC945(P,Q)-T	TRANSISTOR	
-		2SC945(P,Q)-T	TRANSISTOR TRANSISTOR	
		RD161J-221Y	CARBON RESISTOR	220 5% 1/6W
		QRD161J-104Y	CARBON RESISTOR	
	R003	QRD161J-101Y	CARBON RESISTOR	100 5% 1/6W
1.	R004	QRD161J-103Y	CARBON RESISTOR	10K 5% 1/6W
	R005	QRD161J-103Y	CARBON RESISTOR	10K 5% 1/6W
	R006	QRD161J-471Y	CARBON RESISTOR	470 5% 1/6W
		QRD161J-474Y	CARBON RESISTOR	470K 5% 1/6W
1		QRD161J-104Y	CARBON RESISTOR	100K 5% 1/6W
1_	R009 0	RRD161J-331Y RRD161J-223Y	CARBON RESISTOR	330 5% 1/6W 22K 5% 1/6W
Г	R013	RD161J-470Y	CARBON RESISTOR	47 5% 1/6W
		QRD161J-331Y	CARBON RESISTOE	
	R014 R015	QRD161J-331Y QRD161J-150Y QRD161J-474Y	CARBON RESISTOR CARBON RESISTOR	15 5% 1/6W

Δ	REF. NO	PARTS NO.	PARTS NAME	DESCRIPT	ON
1	R017	QRD161J-221Y	CARBON RESISTOR	220 5% 1/6W	03.08
	R018	QRD161J-223Y	CARBON RESISTOR		
	R019	QRD161J-104Y	CARBON RESISTOR		
1	R020	QRD161J-474Y	CARBON RESISTOR		
	R021	QRD161J-472Y	CARBON RESISTOR		
	R023	QRD161J-223Y	CARBON RESISTOR		2258
1	R024	QRD161J-223Y	CARBON RESISTOR		
	R025	QRD161J-223Y	CARBON RESISTOR	22K 5% 1/6W	
1	R026	QRD161J-222Y	CARBON RESISTOR		
i	R027	QRD161J-154Y	CARBON RESISTOR	150K 5% 1/6W	
1	R028	QRD161J-152Y	CARBON RESISTOR		ZOER:
1	R029	QRD161J-223Y	CARBON RESISTOR	22K 5% 1/6W	
1	R030	QRD161J-152Y	CARBON RESISTOR		
	R033	QRD161J-222Y	CARBON RESISTOR	2.2K 5% 1/6W	
1	R034	QRD161J-222Y	CARBON RESISTOR		
1	R035	QRD161J-4R7Y	C RESISTOR	4.7 5% 1/6W	8310
	R036	QRD161J-473Y	CARBON RESISTOR	47K 5% 1/6W	
	R037	QRD161J-473Y	CARBON RESISTOR	47K 5% 1/6W	
1	R042	QRD161J-223Y	CARBON RESISTOR	22K 5% 1/6W	
1	R043	QRD161J-104Y	CARBON RESISTOR	100K 5% 1/6W	
1	R044	QRD161J-223Y	CARBON RESISTOR	22K 5% 1/6W	2588
ı	R046	QRD161J-103Y	CARBON RESISTOR	10K 5% 1/6W	
	R047	QRD161J-223Y	CARBON RESISTOR	22K 5% 1/6W	
1	R048	QRD161J-103Y	CARBON RESISTOR	10K 5% 1/6W	
	R049	QRD161J-223Y	CARBON RESISTOR		
1	R052	QRD161J-4R7Y	C RESISTOR	4.7 5% 1/6W	8335
i	R053	QRD161J-102Y	CARBON RESISTOR	1.0K 5% 1/6W	
	TCO2	QAT3620-100M	T CAPACITOR		
1	TC03	QAT3620-100M	T CAPACITOR		
1_	TC05	QAT3620-100M	T CAPACITOR	CROTATILLACT	
1	T001	VQT7F12-109	IFT MORRAD	0801411-56	0359
1	T002	VQT7A21-103	IFT MORRADI Y		
1	VR01	QVZ3512-103	V.RESISTOR		
1		TUR 560 5% 1/4W	Y CARBON RESIS		
		TON TOX SX TIFE	ZI ZZZ MORRAN Y	na-Liangage - 10	RAGE
		FOR 100K SX 1/6	CARBON RELIES		
1		TOR ZZOK SK 1 M	CARBON RESTS		
		TOR LOCK SW ING	21 23 HOSENO - VE		
		TON BEK SE E/ON	SIE38 MORRAD PE		
_		VELL RE NET BOT	ZIZER MORRAS Y	EX-LIBIORE	BOAR
			Y. CARBON RESTS		
		108 S. 2K SK 116	THE HORRAS		
1		TOR 220 SK LEGH			
1		TOR TOX, SX 1/5W			
-		TOR 3.5 SX 1/4	EIESR MOSRAD Y	RE-LIBIDAD	REST
1		108 67K 98 1/88			
		TOR 10K SX 1/4W			
1		10R 3.5 5% 1188			
		HP/1 25 XET NOT	ELESS NOSSAS Y		
1		8 2 7 8% 1/4	DIRIGHS ISUAL		

RC-W410 B/E/G/GI/V/VX

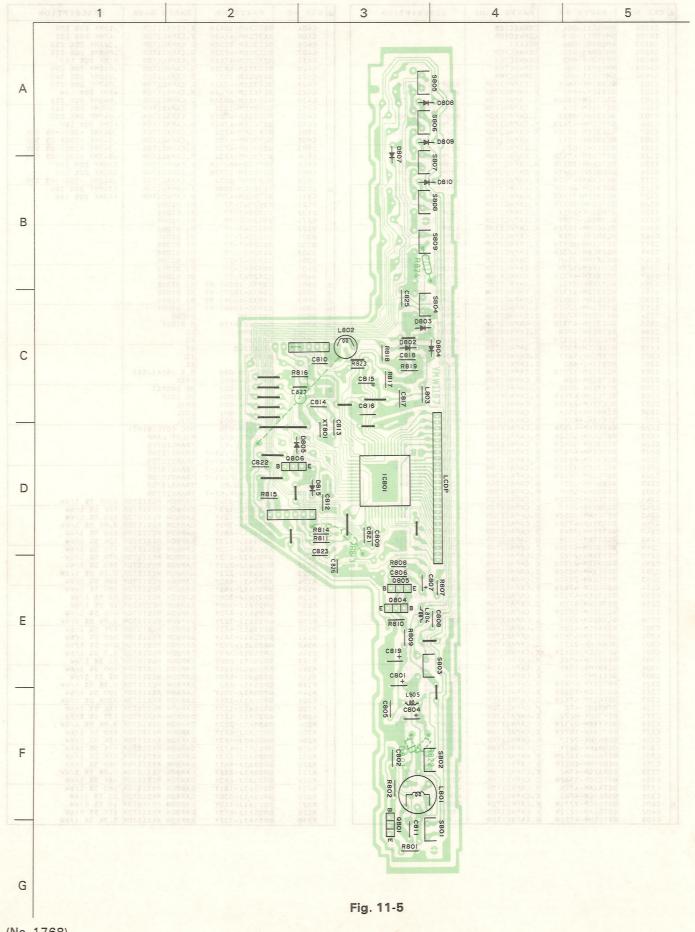
#### **\*Notice**

Contents of CF01 CF01: VCF2L3B-104 CF02: VCF2L3B-104 CF03: VCF1Z2Z-101

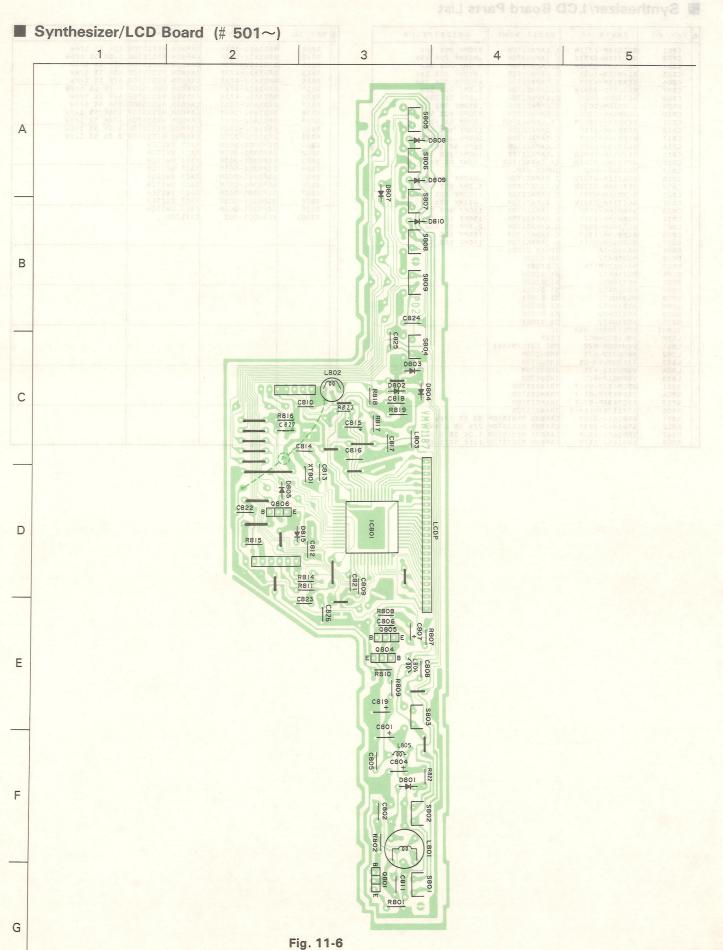
## (The Parts List Can be found on page 24.)

■ Synthesizer/LCD Board (# 1~500)

RC-W410 B/E/G/GI/V/VX



22 (No. 1768)

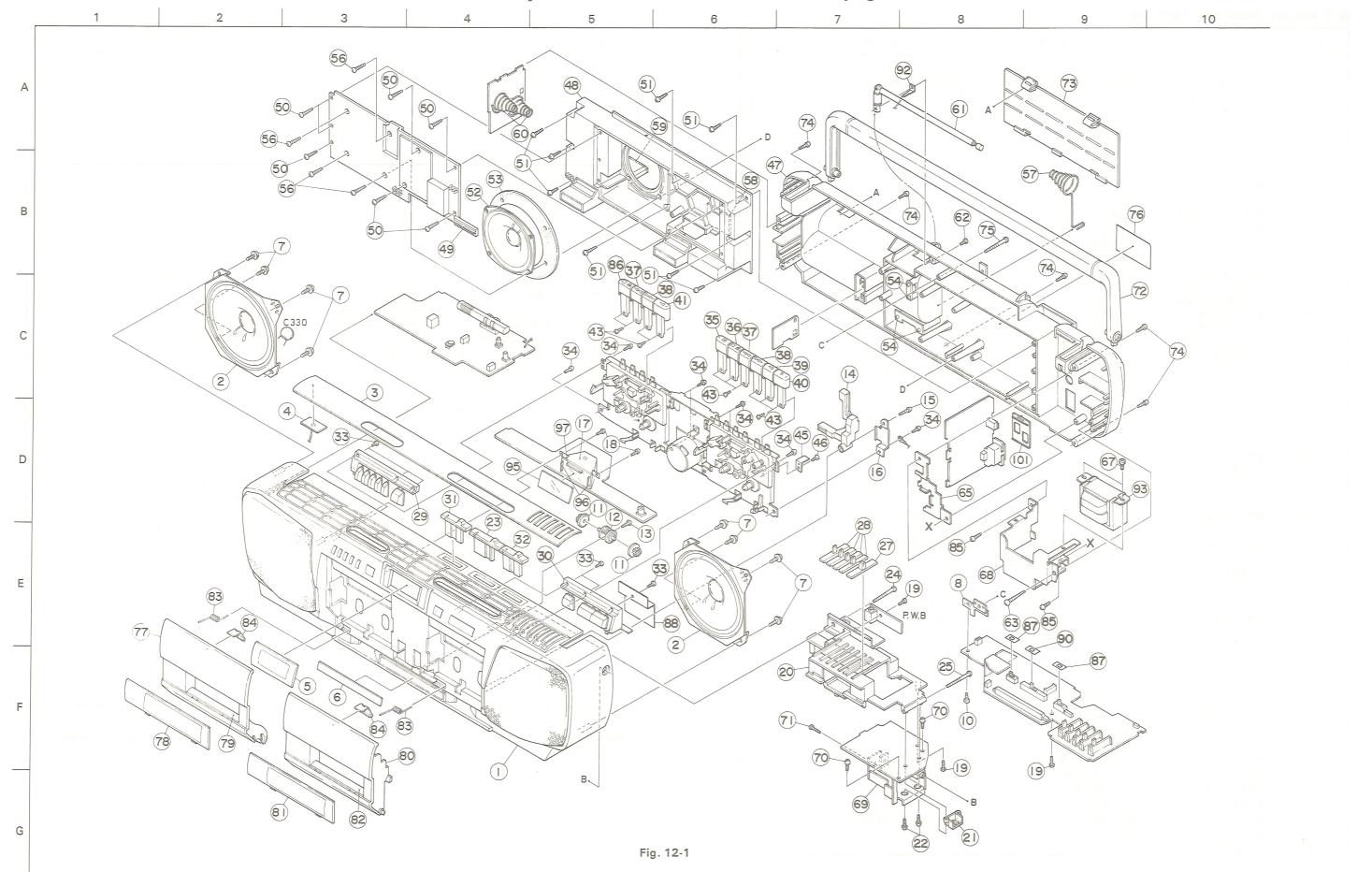


#### ■ Synthesizer/LCD Board Parts List

Δ	REF. NO	PARTS NO.	PARTS NAME	DESCRIPTION
	C801	QETC1AM-227ZN	E CAPACITOR	220MF 20% 10V
1	C802	QCC31EM-223ZV	C CAPACITOR	.022MF 20% 25V
1	C804	QETC1HM-335ZN	E.CAPACITOR	3.3MF 20% 50V
ı	C805	QCVB1CM-103Y	C CAPACITOR	.010MF 20% 16V
1	C806	QCXB1CM-472Y	C CAPACITOR	4700PF 20% 16V
1	C807	QETC1HM-335ZN	E.CAPACITOR	3.3MF 20% 50V
1	C808	QCT3OCH-2R2Y	C.CAPACITOR	2.2PF 5% 50V
ı	C809	QCVB1CM-103Y	C CAPACITOR	.010MF 20% 16V
1	C810	QCBB1HK-331Y	C.CAPACITOR	330PF 10% 50V
١	C811	QFV71HJ-334ZM	TF.CAPACITOR	.33MF 5% 50V
1	C812	QCBB1HK-151Y	C CAPACITOR	150PF 10% 50V
	C813	QCBB1HK-101Y	C CAPACITOR	100PF 10% 50V
1	C814	QCSB1HJ-220Y	C.CAPACITOR	22PF 5% 50V
ı	C815	QETC1AM-107ZN	E.CAPACITOR	100MF 20% 10V
ı	C816	QFV71HJ-334ZM	TF.CAPACITOR	.33MF 5% 50V
t	C817	VCE0004-002	SUPER CAP.	.33MF 3% 30V
1	C818	QCC31EM-473ZV	C CAPACITOR	0/745 00% 054
ı	C819	QETC1HM-335ZN		.047MF 20% 25V
١	C821	QCXB1CM-472Y	E.CAPACITOR C CAPACITOR	3.3MF 20% 50V
ı				4700PF 20% 16V
ŀ	C822	QCC31EM-223ZV	C CAPACITOR	.022MF 20% 25V
ı	C823	QCBB1HK-151Y	C CAPACITOR	150PF 10% 50V
ı	C824	QCBB1HK-151Y	C CAPACITOR	150PF 10% 50V
ı	C825	QCT3OCH-2R2Y	C.CAPACITOR	2.2PF 5% 50V
l	C826	QCBB1HK-151Y	C CAPACITOR	150PF 10% 50V
ŀ	C827	QCBB1HK-151Y	C CAPACITOR	150PF 10% 50V
ı	D801	MA700-TA	ZENER DIODE	
1	D802	HSS104TJ	SI DIODE	
ŀ	D803	MA4043(M)TA	Z DIODE	
	D804	HSS104TJ	SI DIODE	
l.	D805	HSS104TJ	SI DIODE	
l	D807	HSS104TJ	SI DIODE	
ı	D808	HSS104TJ	SI DIODE	
١	D809	HSS104TJ	SI DIODE	
١	D810	HSS104TJ	SI DIODE	
	D815	HSS104TJ	SI DIODE	
	IC801	UPD1708AG-810	I C	
	LCDP	VGL1050-002	LCDP	
	L801	VQH1008-027	OSC COIL(BIAS)	
	L802	VQP0012-471	INDUCTOR	
	L803	TAC000493-01	INDUCTOR	
Г	L804	VQP0012-471	INDUCTOR	
	L805	VQP0012-471	INDUCTOR	
	9801	2SC945(P,Q)-T	TRANSISTOR	
	9804	2SC945(P,Q)-T	TRANSISTOR	
	0805	2SC945(P,Q)-T	TRANSISTOR	
H	0806	2SA1175(HFF)-T	TRANSISTOR	
	R801	QRD161J-330Y		77 59 47711
	R802	QRD161J-3307	CARBON RESISTOR	
	R807		CARBON RESISTOR	
		QRD161J-102Y	CARBON RESISTOR	
	R808	QRD161J-152Y	CARBON RESISTOR	1.5K 5% 1/6W

A REF. NO	PARTS NO.	PARTS NAME	DESCRIPTION
R809 R810 R811 R8113 R814 R815 R816 R817 R818 R819 R822 R823 S801 S802 S803 S804 S805 S805 S806 S807 S807 S808 S809 XT801	QRD161J-103Y QRD161J-473Y QRD161J-473Y QRD161J-473Y QRD161J-473Y QRD161J-473Y QRD161J-473Y QRD161J-473Y QRD161J-473Y QRD161J-102Y QRD161J-102Y QRD161J-102Y QRD161J-102Y QRD161J-02Y QRD161J-02Y QRD161J-02Y QRD161J-02Y QRD161J-02Y QRD161J-02Y QRD161J-03W QSP0301-003M	CARBON RESISTOR TACT SWITCH CRYSTAL	10K 5% 1/6W 1.0K 5% 1/6W 47K 5% 1/6W 47K 5% 1/6W 47K 5% 1/6W 47K 5% 1/6W 47K 5% 1/6W 330 5% 1/6W 100K 5% 1/6W 470K 5% 1/6W 100K 5% 1/6W

## 12 Exploded View of Enclosure Assembly (The Parts List Can be found on page 26.)



REF.	PARTS NO.	PARTS NAME	REMARKS	QTY
<b>*</b> 1	ZCRCW410□-FBK	FRONT CABI ASS'Y	INCLUDED REF. NO. 3,4,5,6	1
2	VGS1001-008	SPEAKER	LEFT, RIGHT	2
3	VJD2333-003	TOP PANEL		1
4	VYH6988-002	SHIELD		1
5	VJK3442-003	LCD LENS		1
6	VJD5188-002	ESCUTCHEON		1
7	GBSF3010Z	TAPPING SCREW	FOR SPK+F.CAB.	8
8	VYH6828-001	BRACKET	I OK OF KITE ONDE	1
10	SDST3008Z	SCREW		1
11	VYH5601-001	GEAR		2
12	VYH5896-001	DAMP HOLDER		
			D 1101 DED : E CAD	1
13	SDSF3012Z	SCREW	D.HOLDER+F.CAB.	1
14	VYH6810-002	REC LEVER		1
15	SBSF3025Z	SCREW	REC LEVER	1
16	VYH6985-001	BRACKET		1
17	VYH6829-002	LCD CASE	LCD	1
18	SBSF3008Z	SCREW	LCD CASE+F.CAB.	2
19	SDSF3012Z	SCREW	FOR AMP+V.HOL.	3
20	VYH2224-001	VOL HOLDER		1
21	VYH6987-001	MIC HOLDER		1
22	SDSF3012Z	SCREW	M.HOL.+VOL.HOL.	- 2
23	VXS3032-001	SLIDE KNOB	FUNCTION	1
24	SBSF3045M	SCREW	V.HOL.+F.CAB.	1
25	SBSF3045M	SCREW	Vallota i la GADa	1
27	VXS4306-001	SLIDE KNOB	VOLUME	1
28	VXS4300-001	SLIDE KNOB	S.E.A	4
		(		
29	VXP3265-001	PUSH KNOB	SCAN, SEEK	1
30	VXP3275-001	PUSH KNOB	TUNER	1
31	VXS3031-001	SLIDE KNOB	NOM/MTL MON/ST	1
32	VXS3031-001	SLIDE KNOB	3 D	1
33	SBSF2608Z	SCREW	P.KNOB+F.CAB.	6
34	SDSF3012Z	SCREW	MECHA+F.CAB.	8
35	VXP3266-005	MECHA BUTTON	PAUSE(B)	1
36	VXP3266-006	MECHA BUTTON	STOP/EJECT(B)	1
37	VXP3266-002	MECHA BUTTON	FF(A)	1
	VXP3266-007	MECHA BUTTON	FF(B)	1
38	VXP3266-003	MECHA BUTTON	REW(A)	1
	VXP3266-008	MECHA BUTTON	REW(B)	1
39	VXP3266-009	MECHA BUTTON	PLAY(B)	1
40	VXP3266-010	MECHA BUTTON	REC.(B)	1
41	VXP3266-004	MECHA BUTTON	PLAY(A)	1
43	SDST2004Z	SCREW		11
45	VYH6915-001	REC.SPRING		
				1
46	SDST2004Z	SCREW		1
47	VJC1743-004	R CABINET	(0)	1
48	VYH1183-002	3D BASE		1
49	VYH6856-001	COVER(A)		1
50	SDSF3016Z	TAP.SCREW	COVER+BASE	7
51	SDSF3016Z	TAP.SCREW	BASE+R.CAB.	8
52	EAS8PXXX	SPEAKER	WOOFER	1
53	VYH6897-002	SHEET	3 - 60	1
54	SSSF3010Z	SCREW	R.CAB.+COVER(A)	2
	SSSF3010Z	SCREW	WOOFER+R.CAB.	2
56	SDSF3016Z	TAP.SCREW	(2)	4

A	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY
	57	VYH5657-004	BATTERY SPRING		1
	58	VYH6989-001	COVER(C)		1
	59	VYH6989-002	COVER(D)		1
	60	VYH5483-001	BATTERY SPRING		2
	61	VJA3006-00E	ROD ANTENNA		1
	62	SDSP3016R	SCREW	ROD ANT.+R.CAB.	1
	63	SBSF4020Z	SCREW	TRANS+R.CAB.	1
	65	VYH6849-002	AC BRACKET		1
	67	SDSP4006Z	SCREW	T.BKT+TRANS	2
	68	VYH3507-001	TRANS BRACKET		1
	69	VYH3508-001	HEAT SHINK		1
	70	SBSF3008Z	SCREW	H.SINK+P.PWB	2
	71	SBSF2608Z	SCREW	H.SINK+IC	3
	72	VJH4101-00A	HANDLE ASS'Y		1
	73	VJC3185-001	BATTERY COVER		1
	74	SBSF3018Z	SCREW	FRONT+REAR	5
	75	SBSF3045Z	SCREW		1
	76	VYN5131-004	NAME PLATE	RC-W410B	1
1	76	VYN5131-002	NAME PLATE	RC-W410E	
	76	VYN5131-005	NAME PLATE	RC-W410G	
	77	VJT2191-001	CASSETTE DOOR		1
1	78	VJT3261-001	DOOR LENS		1
1	79	VJD5162-002	ORNAMENT	2	1
	80	VJT2191-002	CASSETTE DOOR		1
	81	VJT3261-003	DOOR LENS		1
	82	VJD5162-002	ORNAMENT		1
	83	VYH5538-001	CASSETTE SPRING		2
	84	VYH6855-002	DOOR SPRING		2
	85	SDSF3012Z	SCREW		2
	86	VXP3266-001	MECHA BUTTON	STOP/EJECT(A)	1
	87	VYH7018-001	SPACER	3D, MON/ST SW.	2
1	88	VYH7019-001	STOPPER		1
	90	VYH7018-002	SPACER	FUNCTION SW.	1
	92	VYH5012-004	TERMINAL LUG		1
7	93	VTP54P2-12IBS	POWER TRANS	T901	1
	95	VYH6895-001	SHEET		1
1	96	VYSR102-040	SPACER		2
	97	VYSR102-042	SPACER	6.7	1
1	101	VYH6850-001	AC SLIDER		1
		-			

※Note:

When placing an order for this assembly, put an applicable symbol (B, E, G etc.) of the set into the box ( $\square$ ) of the parts number.

# The Parts List Can be found on page 28. 13 Exploded View of Mechanism Assembly С D Е -63 MOTOR ASS'Y 1921 12 319

Fig. 13-1

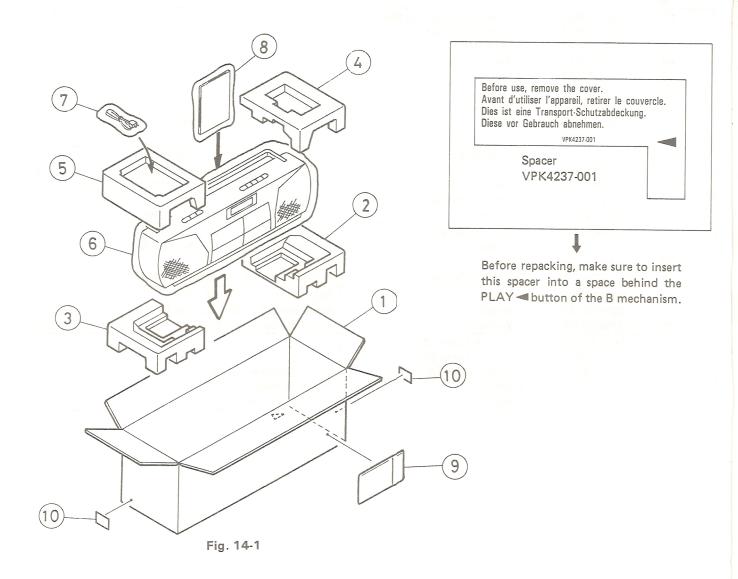
G

#### ■ Mechanism Assembly Parts List

$\triangle$	Symbol No.	Parts No.	Parts Name	Remarks	Q'ty
	1 2 3	192114301T 19211409T 19211438T	Base Ass'y Switch Actuator Push Button Actuator		2 2 2
	4 5	19211403T 19211419T	REC Button Lever		1 2
	6	19211404T	REW Button Lever		2
	7	19211405T	FF Button Lever		2
	8	19211406T	STOP Button Lever		2
	9	19211460T	PAUSE Button Lever	for D. Combrol	1
-	10	19211413AT	Spring PAUSE Lever (E)	for P. Control	1
	11 12	19211455T 19211412T	Spring	for PAUSE Lever	1
	13	19211411T	PAUSE Stopper	10, 17,1002 2010.	1
	14	19211414T	Spring	for Button Lever (A)	3
	15	192101501T	Chassis Ass'y		2
	16	19211416T	Spring	for E. Actuator	2
	17	19211417T	Spring	for P.S. Lever	2
	19 20	182101159T 19211420T	E. Kick Lever PR Stopper		2 2
	21	18211421T	Spring	for REC Button Lever	2
	22	19211433T	Spring	for Button Lever	1
	23	640101149T	Leaf Switch	MSW-1541T	2
	24	640101161T	Leaf Switch	MSW-17820MVDO	1
	25	19210301T	Head Panel		2
	27	19210304AT	Head Base	5 440 4	2
	28 29	19210310T 19210303T	Spring Spring	for MG Arm for Panel P.	1 2
	30	192103031 19211418T	Spring	for M. Control	2
	31	19211434T	P. Arm		1
	32	19211437T	P. Arm Collar		1
	33	19210305T	Magnet Arm	for Erase Head	1
	34	18210307T	Spring	for Azimuth	2
-	35	192104301T	Pinch Roller Arm Ass'y		2
	38	19212604T	Sensing Lever		2 2
	39 40	192107302T 19210703T	RF Clutch Ass'y RF Belt		2
	43	192109304T	Flywheel Ass'y		1
	44	192109304T	Flywheel Ass'y		1
	45	19212605T	Spring	for Gear Plate	2
	46	192126502T	Gear Plate Ass'y		2
	47	19212602T	Cam Gear		2
	49	18211070T	FF Gear		2
$\vdash$	50	18291010T	Spring	for Back Tension	2
	51 52	192105304T 192105303T	Supply Reel Ass'y Take-up Reel Ass'y		2 2
	53	1921053031 19210506T	Sensor		2
	54	19211229T	Motor Bracket (A)		1
	55	19211230T	Motor Bracket (B)		1
	56	18211266T	Motor Rubber		3
	57	18511418T	Collar Screw	for Motor	3
	59 60	182122T 192112T	Main Belt Anti Vibration Felt Mat		1
1			. A DEL VIDESTIAN HAIT BAST		

$\triangle$	Symbol No.	Parts No.	Parts Name	Remarks	Q'ty
	61	18201354T	Anti Vibration Felt Mat		2
	62	19211301T	Eject Slide Lever		2
	63	18211249T	Main Belt	(8)	1
	64	1829 1001T	Pack Spring		2
	65	62020178T	Head	283-30-69 for Playback	1
	66	62020178T	Head	283-30-69 for Recording	1
	67	62121003T	Erase Head	EMH-EA60B	1
	68	192112319T	Motor	MMI-6H2RWSK • 60050350T	1
	69	18211069T	Record Safety Lever		1
	71	91790000T	Tapping Screw	C. Tight M2 x 3 (for Symbol No. 64)	2
	72	91800000T	Tapping Screw	C. Tight M2 x 4 (for Symbol No. 54)	9
	73	96790000T	Tapping Screw	P. Tight Bind M2 x 5 (for Symbol Nos. 1, 15)	4
	74	99991809T	Tapping Screw (Small)	M2 x 4.5 for Precision Machine (Symbol No. 15)	6
	75	90040000T	Screw	M2 x 6 (Pan Head) (for Symbol No. 27)	2
	76	99992018T	Tapping Screw	PS Tight M2 x 3.5 (for Symbol No. 31)	1
	77	911500 <mark>0</mark> 0T	Screw	+ Bind M2 x 3 (for Symbol No. 66)	2
	78	99220000T	Screw	M2 x 7 for Azimuth	2
	79	91820000T	Tapping Screw	C. Tight M2 x 6 (for Symbol No. 91)	1
	83	94220000T	Washer	Polyslider cut 1.2 x 3.8 x 0.3	2
	84	99990313T	Washer	Polyslider cut 1.45 x 3.8 x 0.5	2
	85	97860000T	Washer	Polyslider cut 2 x 3.5 x 0.3	2
	91	19211209T	P. Kick Lever (B)		1
	92	19211231T	P. Kick Lever (A)		1
	93	18211223T	Collar Screw (A)	for PK (Symbol No. 92)	1
	94	18211265T	Collar (B)	for PK (Symbol No. 91)	1
	95	18211225T	Spring	for P. Kick Lever	1

## 14 Packing Illustration and Parts List



#### Packing Parts List

$\triangle$	Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
	1	VPC5131-001	Carton		1
	2	VPH1443-001	Cushion	Right, Bottom	1
	3	VPH1443-002	Cushion	Left, Bottom	1
	4	VPH1444-001	Cushion	Right, Upper	1
	5	VPH1444-002	Cushion	Left, Upper	1
	6	VPH3005-030	Poly Bag	For Set	1
	7	QPGA012-02505	Poly Bag	For Power Cord	1
	8	VPE3005-004	Poly Bag	For Instruction Book	1
	9	E66416-003	Envelope	For Warranty Card (B/G version)	1
	10	VND3046-003	Serial Ticket	Blue: RC-W410E	2
	10	VND3046-004	Serial Ticket	Green: RC-W410B	1
	10	VND3046-005	Serial Ticket	Pink: RC-W410G	1
	10	VND3046-001	Serial Ticket	White: RC-W410GI/V/VX	1

## **15** Accessories

<u>^</u>	Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
		VNN5131-211 VNN5131-441 BT20060 BT20066A BT20065A	Instruction Book Instruction Book Warranty Card Warranty Card Warranty Card	RC-W410 RC-W410E RC-W410B RC-W410B/G RC-W410G	1 1 1 1
Δ Δ		PU36158 E43486-340B QMP3950-183 QMP9017-009BS	FTZ INF. SHEET Safety Instruction Book Power Cord Power Cord	RC-W410G RC-W410B RC-W410E/G RC-W410B	1 1 1 1 1